

To All,

My husband, Paul, and I have recently reviewed a number of local towns' climate action plans. The attached information is a distillation of plans that are in place, or in development, for 5 representative towns in our area: Concord, Arlington, Natick, Dedham, and Westborough. For each town, I have summarized specific goals and actions to be taken by each town in the areas of Built Environment, Energy, Transportation, and Natural Resources. Some towns have also included Solid Waste, Public Health & Safety in their plans.

There are certain actions that are unique to each town. However, there is a high degree of commonality to the overall set of actions each town is taking, with priority, timing, responsibility, and measures of success tailored for each town. Those details are described in the individual town plans linked below.

I hope that this summary will provide the Westford Clean Energy & Sustainability Committee with a running start in assessing the needs of Westford and the necessary actions to be taken on the road to Net Zero 2050.

Best wishes,

Carol Morse
Co-Chair
Westford Climate Action

Primary Sources

[Concord Climate Action and Resiliency Plan](#)

[Arlington Net Zero Plan](#)

[Natick Net Zero Action Plan](#)

[Dedham Climate Action & Resiliency Plan](#)

[Westborough Climate Action Plan\(Draft\)](#)

A Review of Climate Action Plans from Five Area Towns

Concord Climate Action and Resilience Plan June 2020

- Population: 15,500
- Sustainability Position: Kate Hanley, Director of Sustainability
- Baseline GHG Inventory: Yes
- 22 Climate Mitigation Measures: 5 Built Environment/4 Energy/4 Mobility/5 Natural Resources/4 Preparedness

Built Environment

Goal:

1. Concord's buildings and solid waste system minimize GHG emissions and are resilient to a changing climate.

Actions:

1. Increase electrification and improve energy efficiency of residential buildings.
2. Improve energy performance of commercial buildings.
3. Set progressive sustainability standards for new municipal buildings and schools and develop a phased plan for deep energy retrofits to existing town buildings.
4. Establish policies and incentives for new development to achieve high standards for sustainability and resilient design.
5. Create opportunities town wide to increase the waste diversion rate by 30%.

Energy

Goal:

1. concord's electricity is 100% carbon-free, reliable, and affordable.

Actions:

1. Redesign electricity rates to support energy conservation, peak load management, electrification, and renewable energy generation.

2. Provide incentives for businesses/homeowners to invest in renewable energy.
3. Shift CMLP's electricity supply to 100% carbon-free sources by 2030.
4. Deploy utility-scale energy storage

Mobility

Goal:

1. Everyone has access to zero-carbon transportation options to commute and get around Concord.

Actions:

1. Increase use of public transportation and other low-carbon and no-carbon transportation options.
2. Accelerate adoption of electric vehicles.
3. Implement a long-term plan to electrify school and municipal vehicle fleets.
4. Improve availability, accessibility, and connections between bicycling and walking paths and sidewalks.

Natural Resources

Goals:

1. Concord's natural resources are enhanced and supported to provide resilience benefits to the community and to maximize biodiversity and carbon sequestration.

Actions:

1. Develop forest management plan to enhance health of Concord's forests.
2. Increase indoor and outdoor water conservation.
3. Work with homeowners to promote sustainable landscaping practices.
4. Assess the vulnerability of natural resources most at risk to projected climate changes.
5. Assess and improve Concord's tree canopy.

Preparedness

Goals:

1. Concord's critical infrastructure is designed to reduce emissions and be prepared for projected climate impacts.

Actions:

1. Develop an integrated water resource management plan.
2. Conduct a threat assessment for Concord's critical infrastructure.
3. Update stormwater regulations and create a stormwater utility.
4. Increase the use of green infrastructure and low impact development.

Arlington Net Zero Action Roadmap
Draft – Feb/2021

- Population: 42,800
- Sustainability Position: Ken Pruitt, Energy Manager
- Baseline GHG Inventory: Yes
- 31 Climate Mitigation Measures: 17 Buildings/9 Mobility/5 Energy

Roadmap: Overall Approach

- Maximize energy efficiency
 - Promote building energy efficiency
- Electrify everything
 - Building space heating, water heating, cooking
 - Transportation (but first reduce VMTs)
- Green the grid
 - Advocate for increase in RPS
 - Green Arlington’s electricity supply (ACE, municipal contracts)
 - Generate more local solar power

Net Zero Buildings

NZB 1. Convert existing fossil fuel equipment and appliances to electric. Create an ongoing “Electrify Arlington” program and campaign modeled after the past highly successful Solarize and HeatSmart campaigns. (High Priority)

NZB 2. Implement a community-wide energy efficiency outreach program to significantly increase uptake of deep energy retrofits and other significant efficiency measures. (High Priority)

NZB 3. Change zoning or other bylaws that hinder the renovation or construction of net zero energy capable homes. Create incentives to encourage renovation and new construction projects to result in net zero energy capable buildings. (High Priority)

NZB 4. Create a permanent Town “Electrify Arlington” website. (High Priority)

NZB 5. Retrofit and maintain all buildings owned by the Town to reduce energy use as much as feasible (general target 25% but adjust on case-by-case basis), to maximize the installation of renewable energy technology, and to make new buildings and major renovations all-electric.

NZB 6. Advocate with the Department of Energy Resources, Board of Building Regulation and Standards and state legislature for a state net zero energy stretch code.

NZB 7. Evaluate policies that include low- or zero-emissions standards when soliciting and awarding Town contracts for goods and services, and when selling property.

NZB 8. Review whether there are unnecessary barriers to energy efficiency and renewable energy technologies in Historic Districts, and if so, whether changes could be made to Design Guidelines that would reduce those barriers.

NZB 9. Prohibit fossil fuel heating systems in new construction and major renovations.

NZB 10. Allow adjustments to height, setback and density requirements by Special Permit for energy efficiency and renewable energy installations at existing buildings.

NZB 11. Require all new commercial buildings and Apartment Buildings with 10 or more units to include solar PV and/or solar thermal (or be “solar ready”) on a minimum of 50 percent of roof area.

NZB 12. Explore opting-into the state’s commercial Property Assessed Clean Energy (PACE) law to support local financing of clean energy projects.

NZB 13. Promote the planting of trees on private property through Town programs that provide trees at no charge.

NZB 14. Partner with local vocational / technical schools to encourage more HVAC and clean tech workers in Arlington and the region.

NZB 15. Consider establishing a Chapter 40R Smart Growth Zoning Overlay District to allow for dense residential or mixed-use development

NZB 16. Support training opportunities for Town departments, boards and committees, as well as developers, on LEED, Net Zero, Passive House and other high-performance standards.

NZB 17. Continue and Expand Participation in Green Communities and Similar Programs.

Zero Emissions Mobility

ZEM 1. Support implementation of the recommendations and strategies being developed as part of Connect Arlington, the Town's sustainable transportation plan. (High Priority)

ZEM 2. Create and implement a plan to expand public charging at libraries, business districts, public parking facilities, and other facilities, both on- and off-street. (High Priority)

ZEM 3. Provide a suite of education and awareness-building services to promote electric vehicle adoption. (High Priority)

ZEM 4. Adopt a zero-emission municipal fleet and charging infrastructure plan and policy that commits to complete transition to zero emission vehicle purchases by no later than 2030. (High Priority)

ZEM 5. Create an action plan, as a follow up to the Town's Connect Arlington plan, to advocate for community transit service needs, bus stop upgrades, bus rapid transit, and electrification of the regional transit system.

ZEM 6. Evaluate changes to parking policies that would maximize efficient use of spaces, reduce use of single occupancy vehicles, and give dedicated parking to electric vehicles.

ZEM 7. Develop policies and guidelines to promote safe use of electric bicycles, scooters, and other micro-mobility technology, as well as supportive infrastructure improvements.

ZEM 8. Advocate for improved utility rate designs to facilitate smart electric vehicle charging and accelerate EV adoption

ZEM 9. Promote car sharing.

Clean Energy Supply

CES 1. Increase renewable energy in the Arlington Community Electricity (ACE) program so the default level is 100% renewable by 2030. (High Priority)

CES 2. Transition municipal electricity supply to 100% renewable by 2030. (High Priority)

CES 3. Support state legislation and policies that decarbonize the region's electricity supply. Where possible, promote decarbonization incentives specifically for low to moderate income residents. (High Priority)

CES 4. Partner with utilities and others to promote pilot neighborhood-scale shared ground source heat pump projects to help transition Arlington away from natural gas and toward all-electric buildings.

CES 5. Engage in advocacy to encourage regulators and utilities to greatly accelerate the repair of gas leaks, and to phase-out the natural gas distribution supply network.

Natick Net Zero Action Plan Jan 2021

- Population: 36,230
- Sustainability Position: Jillian Wilson-Martin, Sustainability Coordinator
- Baseline GHG Inventory: Yes
- 22 Climate Mitigation Measures: 7 Energy/8 Buildings/7 Mobility

ROADMAP ACTION SUMMARY



| | Energy | Buildings | Mobility | Other | |
|------------------------------------|---|-----------|----------|-------|---|
| 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 small 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. | ● | ● | ● | |
| | 15. Support training for Town staff, leaders, and developers on net zero buildings. | ● | ● | ● | |
| GETTING AROUND NATICK | 16. Expand access to and better promote electric vehicle charging stations. | | | ● | |
| | 17. Prioritize zero emissions mobility options in community planning. | | | ● | |
| | 18. Pilot bike, electric car and ride share programs. | | | ● | |
| | 19. Adopt zero emission standards for the municipal fleet. | | | ● | |
| | 20. Advocate for improvements and electrification of transit. | | | ● | |
| | 21. Partner with local EV dealers to offer discounts and promote state rebates. | | | ● | |
| | 22. Advocate for changes that are beneficial to EV owners and the electric grid. | ● | | ● | |

Energy

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.

Buildings

1. Create an ongoing program to help home and small business owners reduce emissions.
2. Require large, new commercial buildings to gradually achieve net zero by 2040.
3. Require large commercial building owners to report on and reduce energy use.
4. Adopt net zero standards for new public buildings and major renovations.
5. Support state legislation to establish a net zero stretch code.
6. Require at least one climate-ready feature on all new or replaced roofs.
7. Opt into the state's commercial Property Assessed Clean Energy law.
8. Support training for Town staff, leaders, and developers on net zero buildings.

Mobility

1. Expand access to and better promote electric vehicle charging stations.
2. Prioritize zero emissions mobility options in community planning.
3. Pilot bike, electric car and ride share programs.
4. Adopt zero emission standards for the municipal fleet.
5. Advocate for improvements and electrification of transit.
6. Partner with local EV dealers to offer discounts and promote state rebates.
7. Advocate for changes that are beneficial to EV owners and the electric grid.

Dedham Climate Action & Resiliency Plan June 2020

- Population: 25,330
- Sustainability Position: Virginia LeClair, Sustainability Environmental Coordinator
- Baseline GHG Inventory: Yes
- 84 Climate Mitigation Measures: 9 Buildings & Energy/7 Economic Development/11 Public Health & Safety/18 Infrastructure/10 Natural Resources/13 Transportation & Land use/16 Solid Waste Resources

Buildings & Energy

Goals:

1. Municipal greenhouse gas emissions are reduced 80 percent by 2050, using 2010 as a baseline.
2. Community greenhouse gas emissions are reduced 80 percent by 2050, using 2010 as a baseline.
3. All new construction meets net zero energy building standards.
4. Existing buildings are energy efficient and utilize renewable energy.
5. 80 percent of municipal energy consumed in Dedham comes from renewable sources by 2050.

Actions:

1. Adopt green building standards for municipal retrofit and new building projects.
2. Conduct an opportunity screening for on-site combined heat and power (CHP) and potential renewable energy on municipal properties.
3. Incentivize the incorporation of renewable/ alternative energy (e.g. rooftop solar, thermal heat pumps) in new development.
4. Develop a sustainability and resiliency education program for the town's cultural and historic property owners.
5. Develop sustainable design standards and net zero energy requirements for new development and major renovations.
6. Perform deep retrofit of existing municipal facilities.
7. Provide energy efficiency and weatherization training and resources for homeowners, landlords, and residents.
8. Require new development projects (residential and commercial) to incorporate electric vehicle charging infrastructure and parking spaces.
9. Transition municipal fleet to electric or renewable fuel vehicles.

Economic Development

Goals:

1. Businesses are prepared for the impacts of climate change.
2. All residents have access to skills trainings and professional development opportunities.
3. Commercial centers are vibrant, connected, and accessible spaces.

Actions:

1. Conduct an assessment to identify market opportunities and locations for new types of economic growth that support business diversification and address community interests/needs.
2. Expand the Green Business certificate program to incentivize businesses to take action around climate change mitigation and adaptation
3. Focus development and improve bicycle and pedestrian accessibility around identified transportation corridors/centers.
4. Implement an educational program for small businesses on potential climate change impacts, resource distribution and emergency preparedness measures.
5. Increase the presence of green space / pocket parks in » See implementation blueprint commercial centers.
6. Partner with local/regional educational institutions, nonprofits, and businesses to expand training and professional development opportunities in green careers, with a focus on youth, veterans, immigrants, and previously incarcerated populations.
7. Work with local businesses to explore opportunities and/or establish resources that will enable them to support the revitalization of existing neighborhood commercial centers.

Public Health & Safety

Goals:

1. All residents have equitable and timely access to health care services and providers across Dedham's neighborhoods.
2. All residents, especially vulnerable populations, are prepared for and can recover quickly from future climate-related impacts and disasters.

Actions

1. Identify partners and improve volunteer support for public health education (e.g., tick education, sunscreen) and emergency response for all residents.
2. Ensure individuals with medical devices have renewable-powered battery for backup generators.
3. Provide regional transportation services to health care facilities, especially for seniors in Norwood, Westwood, Dedham.
4. Provide regional transportation services to health care facilities, especially for seniors in Norwood, Westwood, Dedham.
5. Expand Wi-Fi access throughout Dedham, particularly in limited-access and low-income neighborhoods.
6. Incorporate potential climate impacts into emergency response planning for community needs such as shelter, food, and healthcare resources. Anticipate needs for climate refugees and populations beyond Dedham.
7. Ensure that all communications and outreach utilize multimedia and are inclusive for non-native English speakers.
8. Provide public community emergency preparedness training workshops for citizens (e.g., what to do under various climate impact scenarios and emergencies; how to support vulnerable neighbors).
9. Offer targeted funding and technical support for low-income and elderly populations to repair/weatherize their home.
10. Improve affordability of local and healthy foods through farmers markets and expansion existing gardening program, Dedham Grows, to local parks and other Town-owned parcels.
11. Develop an education and enforcement program to reduce vehicle idling.

Infrastructure

Goals:

1. Critical utilities, systems, and infrastructure are repaired and enhanced to withstand climate stressors.
2. Water resource management and protection are effectively coordinated at the regional level.
3. All future projects, new and improvement, incorporate green infrastructure measures and best practices.

Actions:

1. Establish a regional coordination system with neighboring towns for emergency planning and response, ensuring shared resources and quick recovery for critical municipal infrastructure during a major climate event.
2. Require an assessment or feasibility study for moving above-ground utilities to underground prior to all major repairs and/or replacements.
3. Conduct an assessment of existing stormwater infrastructure and its condition based on future storm events and flood projections.
4. Evaluate and acquire additional backup power capacity (e.g., generators, distributed/renewable energy sources) across critical facilities, such as schools, police, fire, Town Hall, DPW and libraries.
5. Require the consideration of future precipitation projections when evaluating stormwater structures or conducting drainage studies for repairs or proposed development.
6. Develop Capital Improvements Projects Resiliency Scoring system.
7. Identify existing septic systems within the 500- year flood zone, and transition/connect those systems to municipal sewer where feasible.
8. Conduct a detailed hydraulic analysis to evaluate flood-prone areas.
9. Update guidelines for new public and private infrastructure, specifically the Town of Dedham Design Guidelines, to include design recommendations for considering increased storm frequency and enhancing flood resiliency.
10. Address upstream issues impacting Dedham by working collaboratively with regional entities (e.g., flood storage, dam control and protection).
11. Address upstream issues impacting Dedham by working collaboratively with regional entities (e.g., flood storage, dam control and protection).
12. Introduce and share information on water-saving technologies across the region, including greywater systems and smart water meters.
13. Expand existing education around water conservation to the regional scale to encourage a regional management perspective.
14. Evaluate feasibility of incorporation of green infrastructure in all new development projects.
15. Create education programs to promote green infrastructure techniques in landscaping practices.
16. Create a technical/financial assistance program to accelerate removal of private infiltration and inflow sources.
17. Create an enterprise fund for stormwater maintenance program, including fee credits to incentivize stormwater retrofits (e.g. installation of green infrastructure, removal of impervious surfaces) on private property.
18. Develop a maintenance program for Town- owned green infrastructure.

Natural Resources

Goals:

1. Dedham's tree canopy is enhanced to 65 percent of the community.
2. Dedham's trails provide accessible connections between economic centers and neighborhoods.
3. The Town's wetland areas provide their full ecological value, including providing essential habitat, and water storage and purification.
4. Air and water quality meet or exceed state and federal standards.

Actions:

1. Advance the tree inventory into an asset management program for tree planting, care, and removal/replacement.
2. Develop a tree preservation bylaw.
3. Educate residents and businesses around environmentally friendly lawn/yard management and sustainable landscaping techniques (e.g., pet waste disposal, reduced pesticide use).
4. Employ creative ways to educate town staff, residents, and businesses around the importance and role of trees.
5. Implement prioritized actions from the 2019 Open Space and Recreation Plan (OSRP) that address the expansion and maintenance of open space and trails.
6. Leverage existing work and repairs within public spaces to plant more trees (e.g., DPW work with town sidewalks)
7. Protect and promote the preservation of wetlands, including restoration of filled wetlands and floodplain areas.
8. Review preferred tree species lists against climate projections and update to ensure trees planted will thrive under future conditions.
9. Review the Town's Wetlands Bylaws to incorporate climate change considerations related to potential habitat loss/degradation, flood storage, etc.
10. Support the development of the Dedham Rail Trail to provide accessible connections between economic centers, schools and neighborhoods.

Transportation & Land Use

Goals:

1. Future developments in Dedham prioritize transit access, walkability, and a diversity of uses, while fostering affordability and inclusivity.
2. Zoning and design tools incorporate sustainability and climate resilience.

3. Neighborhoods across Dedham are connected and accessible by a multimodal transportation and public transit system.

Actions:

1. Complete a Housing Plan to identify and address key housing and resource access needs for all community members, and identify potential redevelopment opportunities.
2. Incentivize high-density development near transit hubs.
3. Review and update Dedham's Zoning bylaws to proactively enable increased density, diversity of housing types, and transit-oriented development.
4. Require new development/redevelopment of sites and buildings to create/provide access for non-motorized transportation (including pedestrian and bike amenities) and public transit.
5. Work with town boards and department to review and update zoning and permitting requirements, ensuring all provisions are compatible with sustainability and resiliency goals.
6. Review and update existing design guidelines for transportation projects and new development to include sustainability and resiliency provisions.
7. Introduce sustainability guidelines/requirements in site plan applications.
8. Install safety measures to ensure safer pedestrian, cycling, and transit access across major roads and highways at targeted locations (e.g., for Legacy Place, across Route 1).
9. Expand pedestrian, bike, and transit infrastructure to and around major Town attractions, commercial centers, as well as local and regional parks and trails, including supporting the creation of the Rail Trail.
10. Establish part of the revenue from Motor Vehicle Excise Tax to fund pedestrian, bike, and transit infrastructure.
11. Continue implementing the Complete Streets program to ensure roads have bike, pedestrian, and transit access.
12. Work with MassDOT officials to explore multimodal transportation infrastructure, increased green space, and vegetation options for Route 1.
13. Enhance regional coordination for more substantial funding of transportation projects and to better integrate Dedham into regional networks of non-motorized transportation options, as well as potential MBTA projects for high frequency and high capacity transit such as BRT.

Solid Waste Resources

Goals:

1. Reduce solid waste generation by 30 percent by 2030.

2. Waste diversion practices throughout the community have eliminated contamination.
3. Dedham achieves zero waste by 2050.
4. Dedham creates a circular economy through creative solutions for production, consumption, and waste management.

Actions:

1. Expand composting programs and associated education to all public schools in Dedham.
2. Establish a consistent recycling education program in partnership with Waste Management.
3. Establish a Town-wide recycling identification system (e.g., sticker system) to support residents with proper recycling and/or to alert residents to improper sorting and disposal practices.
4. Require businesses and multi-family residences that contract with private haulers to obtain recycling services by implementing Private Hauler Regulations.
5. Provide increased recycling options for bulk items including white goods and furniture. Consider establishing
6. Consider additional waste bans (beyond plastic bags, Styrofoam, straws) to reduce key sources of recycling contamination.
7. Expand options for and education around proper disposal of medical waste.
8. Develop new outreach and education materials specifically targeted at those audiences/neighborhoods with the lowest recycling rates to encourage proper recycling through clear, multilingual messages.
9. Establish a community-wide composting program.
10. Introduce a fee for bulk trash items per MassDEP's guidelines.
11. Establish a recycling and repurpose policy/ program for furniture and other bulk items from all public buildings/facilities. Explore creative options for donation and reuse.
12. Establish takeback programs in partnership with large businesses (e.g., Amazon cardboard) and vendors of select materials/ contaminants (e.g., batteries, mercury bulbs).
13. Promote “buy-nothing” and establish a “swap shop” and other freecycling opportunities for residents in Dedham.
14. Adopt guidelines such as Zero Waste Community Principles (from the Zero Waste International Alliance) for Dedham.
15. Work with MassDEP requirements to host two or more Hazardous Waste Days annually, regionally or exclusively for Dedham residents.
16. Establish a Pay-As-You-Throw (PAYT) program.

Westborough Climate Action Plan
Draft - December 2020

- Population: 19,000
- Sustainability Position: No
- Baseline GHG Inventory: Yes (MAPC)
- 32 Climate Mitigation Measures: 5 Energy/5 Heating/4 Transportation/7 Energy Efficiency/3 Building Use/2 Public Transportation/3 Bike & Pedestrian/3 Natural Environment

Climate Action Plan Task Force Resolution adopted in October, 2019; Task Force established February, 2020

Board Members

| Name | Title |
|--------------------|----------------------------------|
| Peter Dunbeck | Chair (Public) |
| Amber Bock | Member (School Dept.) |
| Leigh Emery | Member (Board of Selectmen) |
| Peter Flynn | Member (Public) |
| Stephanie Kelley | Member (Public) |
| Tim Koehler | Member (Public) |
| Andrew Koenigsberg | Member (Conservation Commission) |
| David McMahon | Resigned (Public) |
| Sharad Mehta | Member (Public) |
| Timothy Paris | Member (Planning Board) |
| Chris Payant | Member (Dept. Public Works) |

Primary Goals

Greatest direct impact to GHG reduction



Clean Sources of Electricity

- Electricity supplied by clean generation is 40% of the electricity used in town by 2030 and 80% by 2050. (or more if state goals change)

Electrification of Building Heating

- Eliminate fossil fuel sources used for heating and cooling environments in at least 20% of buildings in each segment by 2030. Promote electrification of new buildings, and the conversion of existing buildings.

Electrification of Transportation

- Consistent with the Massachusetts State goals, 25% of the registered vehicles in Westborough should be Electric Vehicles by the year 2030. Encourage and Promote the adoption of Electric Vehicles by town residents.

| CAP Development Plan | | | | |
|---|-------------|----------------|---------------|---------|
| Westborough Tim Koehler | | Project Start: | Mon, 3/2/2020 | |
| | | Display Week: | 1 | |
| MILESTONE & TASK | ASSIGNED TO | PROGRESS | START | END |
| A. Foundation | | | 2/1/20 | 4/17/20 |
| B. Discovery & Draft Inventory | | | 3/2/20 | 6/1/20 |
| C. Select Strategy Candidates | | | 6/1/20 | 7/6/20 |
| D. Create Stakeholder Briefing Package | | | 7/7/20 | 9/6/20 |
| E. Gather Community Feedback | | | 9/7/20 | 11/2/20 |
| F. Finalize List of Strategies | | | 10/6/20 | 12/8/20 |
| G. Prepare Climate Action Plan Document | | | 9/1/20 | 1/13/21 |
| H. Final Review Cycle CAP Document | | | 1/14/21 | 3/1/21 |
| I. CAP Submission & Approval | | | 3/1/21 | 3/20/21 |

Draft Measures

Clean Sources of Energy

Goal:

1. Electricity supplied by clean generation is 40% of the electricity used in town by 2030 and 80% by 2050. (or more if state goals change)

Strategies:

1. Ramp up the carbon-free renewable content in Westborough Power Choice every contract cycle.
2. Promote and participate in the state’s Solarize Massachusetts Renewable Target (SMART) and Solarize Plus programs. Develop and Implement an integrated solar strategy.
3. Increase Class 1 renewable sources for municipal supply by 2021.
4. Department of Public Works builds a zero-carbon power source for water and sewer facilities by 2030.
5. Get Westborough into new technology pilot programs.

Electrification of Building Heating

Goal:

1. Eliminate fossil fuel sources used for heating and cooling environments in at least 20% of buildings in each segment by 2030. Promote electrification of new buildings, and the conversion of existing buildings.

Strategies:

1. Enact local policy requiring heating of all structures must be from 100% carbon free sources
2. Implement MassCEC HeatSmart program
3. Promote Ground Source Heat Pumps to Commercial & Industrial oil and gas customers
4. Require full electrification and deep energy efficiency of new and major renovations of municipal buildings
5. Town will implement State initiated changes to building code that require electrification and deep energy efficiency for new construction and major renovations of all buildings

Transportation Sector

Goal:

1. Consistent with the Massachusetts State goals, 25% of the registered vehicles in Westborough should be Electric Vehicles by the year 2030. Encourage and Promote the adoption of Electric Vehicles by town residents.

Strategies:

1. Pass Bylaws requiring EV charging stations in multi-tenant residences, commercial parking lots and public lots at sufficient for residents, employees and customers.
2. Work with Statehouse Reps to advocate for funding and programs to support transportation electrification in Westborough (pilot or statewide).
3. Establish policy to implement an all Electric Municipal Vehicle fleet. Phase in between 2025 and 2030 by use case.
4. Assemble a task force to study and develop policy recommendations for Autonomous Vehicles by 2025

Secondary Goals

Energy Efficiency

Goal:

1. Increase the energy efficiency of existing and new building stock to reduce the energy consumed for heating and cooling across segments (2017 baseline) by 20% in 2030.

Strategies:

1. Outreach to establish relationships with owners of top 20 carbon emissions C&I buildings in order to support the implementation of energy efficiency and carbon reduction measures.
2. Partner with energy efficiency service providers to implement a community-wide energy efficiency outreach program.
3. Implement Mass Save Municipal Partnership program including LEAN program for low income multifamily dwellings
4. Outreach to owners of multi-family rental properties and, in particular, affordable housing (i.e. Housing Authority) to facilitate implementation of energy saving measures.
5. Outreach to contractors that service residential customers for roofing, heating and cooling systems to present greener alternatives to homeowners at time of replacement.
6. Organize energy fairs for people to learn about energy savings opportunities and plans by 2021.
7. Migrate all town and school buildings to LED lighting, Convert street lights to LEDs

Building Energy Use Disclosure

Goal:

1. Implement local regulations, or adopt State regulations, that require annual building energy use disclosure across segments no later than 2030.

Strategies:

1. Publish annual building energy use disclosure for all municipal buildings
2. Require annual building energy use disclosure for Commercial and Industrial buildings
3. Require energy disclosure on residential single-family home sales with phase in through end of 2029

Public Transportation

Goal:

1. Encourage the use of Public Transport including increase Commuter Rail from Westborough by 50% over next 5 years

Strategies

1. Facilitate passengers travel on public transit between the train station and destinations within the town.
2. Increase and optimize use of local transport services. Gather data from usage of the new Via Service and make improvements on an ongoing basis to drive expanded impact. (Via is Uber-like Shuttle bus service)

Bike and Pedestrian

Goal:

1. Plan and build infrastructure to facilitate safe transportation for bike-riders and pedestrians in Westborough and to neighboring towns. Implement 50% of Complete Streets Priority List of projects by 2030.

Strategies

1. Use the Complete Streets program process to develop a prioritized list of projects
2. Use the "corridor study" methodology leveraging the model being developed for Amazon on Otis Street.
3. Enable students to bike to school if they live within 1 mile

Protection and Expansion of Natural Environment

Goal:

1. Maintain and expand public and private open space
2. Maintain and/or restore urban trees and established forests to achieve ___ MtCO₂e/yr reduction in GHG

Strategies:

1. Identify means to generate funding to protect existing and acquire additional open space.
2. Educate and promote the benefits of sustainable landscaping and green infrastructure
3. Conduct forest and right of way tree management to sustain existing healthy trees and promote new growth.