

BROOKLINE CLIMATE ACTION PLAN 2018 Overview of Selected, High-Priority Mitigation Action Items (greatest GHG reductions) and Critical Adaptation Action Items (see CAP 2018 for full list)

RECOMMENDATION Prioritize planning to achieve zero emissions by 2050 Town- and community-wide

Low-Carb(on) Diet Predicated on greater **Energy Efficiency**, increased **Renewable Energy** (decarbonization), progress toward **Electricity**-sourced systems

STRATEGY 1 Greater Energy Efficiency	STRATEGY 2 Increased Renewable Energy	STRATEGY 3 Improved Transportation Options	STRATEGY 4 Reduced Waste	STRATEGY 5 Enhanced/Protected Tree Canopies and Open Space	STRATEGY 6 Adaptation and Climate Preparedness
GHG Reductions X MMT CO ₂ e Y%	GHG Reductions X MMT CO ₂ e Y%	GHG Reductions X MMT CO ₂ e Y%	GHG Reductions X MMT CO ₂ e Y%	GHG Reductions X MMT CO ₂ e Y%	
Actions 1. Adopt Green Building Guidelines for projects 25,000+ sf 2. Retrofit all street lights and facility lighting to LED 3. Create MOU with utilities to increase incentives for commercial properties to lower GHG emissions 4. Adopt BERDO/BEUDO for 25,000+ sf bldgs.; launch pilot first 5. Accelerate repair of gas/methane leaks by X% 6. Study applying Passivhaus standards to affordable housing	Actions 1. Achieve fossil-fuel-free (FFF) or net zero new school projects 2. Launch Community Solar Program 3. Study options for increasing renewables component of municipal electric supply 4. Install X megawatts of solar PV at municipal facilities 5. Study pro/con of conversion to electric heat 6. Expand solar regulations in conjunction with tree preservation policy	Actions 1. Obtain State certification for Complete Streets Prioritization Plan 2. Update Transportation Access Plan Guidelines with more sustainability provisions; for eg, EVSE installs in major impact projects 3. Install 50+ EVSE ports in optimal locations accessed by public (eg, Beacon St) 4. Work with state, private partners to implement clean energy shuttle bus services in commercial districts (Brookline Village-Coolidge; Route 9-Boylston Street)	Actions 1. Create Zero Waste plan 2. Launch composting / organics diversion program 3. Install permeable pavement on Town-owned properties to reduce runoff	Actions 1. Amended erosion control management bylaw 2. Adopt Site Plan Review with Tree Survey/Review component for private properties 3. Create tree inventory to compare with heat island, flooding maps; identify opportunities to plant X more trees in vulnerable areas for cooling effect, detaining water, and sequestering carbon 4. Participate in urban-forest carbon registry to fund planting and stormwater projects	Actions 1. Reach out to hospitals, nursing homes, and group homes to ensure they have Continuity of Operations (COOP) plans so they can perform essential functions during emergencies. 2. Encourage use of microgrids, district energy, and battery storage to keep critical facilities functioning in the event of power loss. 3. Encourage depaving and use of permeable surfaces in areas vulnerable to flooding. 4. Expand communication infrastructure
Mechanisms / Policy Docs educate / incentivize / mandate <ul style="list-style-type: none">Amendments to Zoning BylawGreen Communities grant funding (ongoing)Technical assistance to create MOU	Mechanisms / Policy Docs educate / incentivize / mandate <ul style="list-style-type: none">Amendments to Zoning BylawGreen Communities grant funding (ongoing)Technical assistance grant funding for SMART incentives analysis	Mechanisms / Policy Docs educate / incentivize / mandate <ul style="list-style-type: none">DPW updated TAP Jan 2018VW Settlement, Eversource Investments opportunitiesGrant funding, Complete Streets	Mechanisms / Policy Docs educate / incentivize / mandate <ul style="list-style-type: none">Amendments to Town BylawAmendment to Zoning BylawCarbon credits registry can help fund planting, stormwater projects	Mechanisms / Policy Docs educate / incentivize / mandate <ul style="list-style-type: none">Amendments to Town BylawAmendment to Zoning BylawMaintain tree inventoryTech assistance to measure canopy increase and lower landarea temp	Mechanisms / Policy Docs educate / incentivize / mandate <ul style="list-style-type: none">MVP grant funding for policy audit, new low-impact development guidelinesFEMA grant funding

CRITERIA FOR EACH ACTION ITEM (not in chart above)	SELECTED POLICY DOCUMENTS THAT MUST INTEGRATE THE CAP
1. Specific and self-explanatory	<ul style="list-style-type: none">GHG Inventory / Energy Reduction Plan: A foundation for the Climate Action Plan, used to make policy decisions; needs to be created
2. Quantifiable Environmental Impact (in terms of GHG reductions)	<ul style="list-style-type: none">Comprehensive Plan: Include the Climate Action Plan as a separate chapter in the CP
3. Schedule or Priority	<ul style="list-style-type: none">Capital Improvements Program: Include policies for building new facilities (for eg, fossil-fuel-free new school projects)
4. Estimated Cost To Implement	<ul style="list-style-type: none">Strategic Asset Plan: For eg, include facilities that can double as cooling centers with back-up generation powered by solar
5. Funding Source	<ul style="list-style-type: none">Hazard Mitigation Plan: Update to reflect new Vulnerability Assessment / Adaption action item
6. Mechanism for Approval/Implementation	<ul style="list-style-type: none">Zoning Bylaw / General Bylaw: Green Building Guidelines; enhanced erosion/sediment bylaw
7. Policy Document Governing Enforcement, Monitoring	<ul style="list-style-type: none">Transportation Asset Plan Guidelines: Include sustainability provisions; for eg, electric-vehicle charging stations/conduit for future installs
8. Primary Department or Body Responsible for Launch, Implementation	<ul style="list-style-type: none">Open Space Plan: (and vice versa)
9. Staffing/Town operations implications identified	POLICY AUDIT: Current plans in progress or completed that make progress toward CAP objective; for eg Complete Streets Policy (May 2016)
10. Co-Benefits (cost savings, improved air quality, etc)	2019 / ZERO EMISSIONS PLANNING: Not shown above, but all strategic areas must develop plans to achieve zero emissions by 2050.