



# Town of Brookline Massachusetts

## SELECT BOARD'S CLIMATE ACTION COMMITTEE

Nancy Heller, Co-Chair  
Werner Lohe, Co-Chair

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Brookline Town Hall  
333 Washington Street  
First Floor – ROOM 103

Monday, March 4, 2018 at 6 pm

### AGENDA

1. Approval of January Minutes (No meeting February)
2. Building Department Presentation: Energy Conservation and Fossil-Fuel Free Planning
3. Net Zero Schools Subcommittee: Final Report
4. Climate Action Priorities
5. Subcommittee Reports
6. New and Old Business

Next Meeting: March 25, 2019

Planning Department Contact:

Maria Morelli, Senior Planner, [mmorelli@brooklinema.gov](mailto:mmorelli@brooklinema.gov)

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## Select Board's Climate Action Committee: Responsibilities

"The Selectmen's Climate Action Committee has the following responsibilities:

"To promote a goal of achieving 80% reduction in greenhouse gas (GHG) emissions by 2050 in alignment with the Massachusetts' Global Warming Solutions Act. *[Will ask Select Board to amend charge to "commitment to zero emissions by 2050 planning"]*

"To promote and implement resiliency measures to better prepare the Brookline community to adapt to climate change.

"To develop a comprehensive strategic plan that includes, but is not limited to, reducing greenhouse gas emissions and promoting sustainable practices for home, school and businesses.

"To advance Brookline as a leader in diverse sustainable practices that contribute to environmental health and positive social impact and economic development.

"To promote greater awareness about sustainability and the need to reduce GHG emissions through citizen choices.

"To recommend and, where appropriate, implement programs that reduce the net production of GHG emissions in Brookline.

"To measure, assess and/or monitor the efforts of the Town to reduce net GHG emissions.

"To serve as liaison between the Town and the public with regard to information and programs related to reducing net production of greenhouse gases.

"To report annually to the Annual Town Meeting and to report from time to time to the Board of Selectmen, the Town Administrator, and the public."

Climate Action 2019 Priorities

CAP Objective: Prioritizing planning to achieve zero emissions x 2050							
MUNICIPALITY PLANNING TO ACHIEVE ZERO EMISSIONS							
<b>Emissions Policy (In FY20 BUDGET BOOK)</b>							
<ul style="list-style-type: none"> <li>▪ <b>0 x 2030 Town-wide (v. Community-wide) – Jan. 2019</b></li> <li>▪ <b>50% energy reduction by 2030 over 2010 levels</b> [or percentage needed as determined by engineering consultant]</li> </ul>							
	BIG MOVES TO IMPLEMENT	MECHANISMS TO IMPLEMENT	KEY TASKS	BUDGETING TASKS	KEY MILESTONES TM, Budgets	CAC Roles	Independent Technical
1	Setting 0 x 2030 emissions policy for municipality <ul style="list-style-type: none"> <li>• All-Electric Building Systems</li> <li>• Municipal Load Contract</li> <li>• EV Fleet</li> </ul>	(Budget Priority) Select Board FY20 Objectives for inclusion in budget book	Nancy Heller reviewed staff recommendation prior to submission to SB	See components below	Submitted Jan 10, 2019 to Mel. SB to approve Jan 29.	Nancy Heller + Staff	
2	New Construction and major renovations: ZEB/All-Electric	(Policy) Resolution to TM	Update select board and obtain approval prior to submission	Budget maintenance (in-house training or outside service)	February	Work with staff	Sustainability consultant part of design RFP
			Submit to TM		March		
3	Planning renovations/conversions to ZEB/All-Electric <ul style="list-style-type: none"> <li>• Upgrades affect not only HVAC systems but especially elements to lower EUI (windows, etc)</li> <li>• Consultant to confirm annual EUI targets to best support all-electric systems</li> </ul>	(Capital Budget) CIP FY2020-2025	Garcia Galuska Desousa to review 30 buildings and scope out costs to renovate for fossil-fuel free	Confirm Facilities budget (\$25,000)	March/April	NA	Staff + DOER
			Submit renovation estimates to Melissa		May		NA
4	Building Commission Bylaw (+ analysis framework, procedures) WBD process must dovetail Building Comm. changes, resiliency policy audit	Staff to work with Building Commission on draft	In process		Submit to TM in September (TM F19)	Review drafts in advisory capacity (preferably with architects on subcommittee)	Informal review by architects, MEPs, DOER

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5	Brookline Green Electricity: Revisit default percentage Bid for new contract	Memo to Select Board from Chairs and Staff	In process		February 12 (latest)	Chairs, Maria Morelli, Kara Brewton, Tommy Vitolo.	Sustainable Energy Advantage (Sub to energy broker)
			RFP out		March		
			Bids accepted		April		
6	Municipal Load: Increase renewable energy component to X%.	Would avoid warrant article because markets are volatile and could adversely affect school budgets	Identify criteria for green purchases			New CAC subcommittee with energy experts	Staff is evaluating new energy broker + renewables consultant
			Explore different green power portfolio options	Impacts on school budgets, etc			
			Go out to bid		Possibly in 2020		
7	Solar Rooftop PV installs 8-9 muni buildings identified for 1,500,000 kWh renewable energy generated annually	Select Board to approve licenses, agreements	Pricing from developer under review by Cadmus; project timeline being prepared.	PPA more beneficial than ownership (plus nothing has been budgeted for ownership)	Installation in Summer 2019	One dedicated CAC meeting for review and questions (Feb 25)	Cadmus to review contracts, pricing, construx plans. Power Options procured developer
8	Fleet: Convert fleet to EV	Need a conversion plan	Review replacement schedules for buys Budget purchase, O+M forEVSE Budget for training to maintain vehicles	New purchases + rebates, EVSE purchases and O+M, vehicle maintenance training	Devise plan by November 1, 2019	Maria Morelli is working Mark Parece and Kevin Johnson to devise conversion plan + assoc. costs	NA
9	School Buses: Research for EV pilot (outside contract)	Pilot?	Research models Propose a pilot	New subcommittee to scope out	March: findings May: drafted pilot proposal	Started; new subcommittee should study	Subcommittee to identify other munis who have piloted
10	Energy Conservation Strategic + Operations Policies	Select Board Statement	Revisit or craft policy Specific temp set points List of actions	Involve financial department	May (coincide with all- electric conversion analysis)	Review but not study [ie, it's a math problem (annual redux) not a policy]	The Green Engineer via Brookline HS + other tech consultants hired in (3)
11	Lower EUI of problem buildings	Need a plan for reporting	Diagnostics (determine if Facilities has such)	May need separate RFP for diagnostics	May	Maria/Dan/Charlie will scope out as part of item (3)	Combine with item (3) if possible

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12	Climate Resiliency Policy Audit	Eventual amendments to Stormwater, Zoning Plus standalone checklists	Project is underway Expected to be completed by May 2019	\$75,000 MVP Grant awarded	Estimated completion of recommendation May 2019. Pertinent Boards will be involved through winter and spring.	Cross-section of boards will be involved in review. Recommendations to TM need to be prioritized.	Engaged Weston & Sampson. Will dovetail with EEA, MAPC, Charles River Watershed Assoc.
13	Site Plan Review: Sustainability guidelines: <b>(Resiliency)</b> Site optimization; LID practices, erosion control	Amend zoning bylaw to X-ref standalone checklist. <b>Can apply checklist first</b>	Resiliency component will be drawn policy audit (12)	Covered under grant (12)	Schedule to be confirmed in Spring 2019	Review guidelines in spring	
14	Site Plan Review: Sustainability guidelines <b>(Mitigation/prep for 0 x 2050)</b> : Whole Building Design, plan for all-electric renewable energy, EVSE)	Amend zoning bylaw to X-ref standalone checklist <b>Can apply checklist first</b>	Benchmarks for EUI + annual energy/GHG reductions	Maria to id scope for tech consultant		Review guidelines in fall	
15	Draft regs for large ground-mounted solar (to prioritize rooftop, surface lots over open sp)	Amend zoning bylaw	Staff to modify DOER model; Not scheduled		Identify priority, especially risks	Review staff's draft	DOER has model bylaw
16	Beacon Street : EVSE	SB approval of proposals	Update SB SB to approve agreements		Eversource work in Spring 2019	Maria will provide updates to CAC	
	<b>#16 Described: 10% of 600 parking spaces on two mile stretch of to be upgraded by Eversource. 23 of the 59 spaces to be installed with EVSE ports: 20 = Level 2 and 3 = DCfast 10 – EV Car Share. In partnership with Electrify America, Greenlots, Greenspot, Eversource Make-Ready</b>						
17	Beacon Street: Bike path median	Feasibility study			See DPW feasibility RFP	MM needs update fr Todd	
18	Advocacy: Municipal official can vote on State Building Code adoption of IECC (carbon neutral x 2050)			About \$250 to register. See MAPC	Register by March. Vote 11/27/2019.		