

Climate Action 2019 Priorities

| CAP Objective: Prioritizing planning to achieve zero emissions x 2050 | | | | | | | |
|--|---|---|--|---|---|---|--|
| MUNICIPALITY PLANNING TO ACHIEVE ZERO EMISSIONS | | | | | | | |
| Emissions Policy (In FY20 BUDGET BOOK) | | | | | | | |
| <ul style="list-style-type: none"> ▪ 0 x 2030 Town-wide (v. Community-wide) – Jan. 2019 ▪ 50% energy reduction by 2030 over 2010 levels [or percentage needed as determined by engineering consultant] | | | | | | | |
| | 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"> • All-Electric Building Systems • Municipal Load Contract • EV Fleet | (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"> • Upgrades affect not only HVAC systems but especially elements to lower EUI (windows, etc) • Consultant to confirm annual EUI targets to best support all-electric systems | (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: (Resiliency) Site optimization; LID practices, erosion control | Amend zoning bylaw to X-ref standalone checklist. Can apply checklist first | 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 (Mitigation/prep for 0 x 2050) : Whole Building Design, plan for all-electric renewable energy, EVSE) | Amend zoning bylaw to X-ref standalone checklist Can apply checklist first | 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 | |
| | #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 | | | | | | |
| 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 | | | About \$250 to register. See MAPC | Register by March. Vote 11/27/2019. | | |

CAC Priorities

Q1 / 2019

Solar Contracts

Strategic outreach aggregation

Tech advisors (community): recruitment

Q2 / 2019

Site Plan Review Sustainability Components (begin)

Climate Spring 2019

Businesses event

Q3-4 / 2019

BC Bylaw prior to submission to TM

Q3-4 / 2019

Proposal for EV School Bus Study/Pilot

2019 - 2020

Municipal Load – Portfolio options for renewable energy

Committee Review by Meeting

January

Priorities Calendar, Budget Calendar

Subcommittee: Climate Spring 2019

February

Solar PV Contracts

SB aggregation memo?

Subcommittee: Strategic outreach for Opt Up to 100%

March

Weston & Sampson policy audit input for deliverables

Subcommittee: Recruiting tech advisors from Brookline community

May

Subcommittee: EV School Bus Study (Initial findings)

July:

Draft of BC bylaw?

Sept:

BC Bylaw Amend reviewed by CAC + submitted to TM by BC/staff

Oct: Subcommittee: EV School Bus Study: Proposal for Pilot

General Communications Calendar

- Quarterly Updates to SB
- Recommendations to SB
- Recommendations to SB prior to submissions to TM
- Regular updates to TMM (link to online updates)
- Calendar for public
- Events calendar
 - Climate Spring 2019
 - Associations + businesses
 - Opt Up
 - Aggregation new contract
 - Work in the public way