

Building Department

1. Following system commissioning, Coolidge Corner School has an **actual Energy Use Index of 23**, much lower than designed/ predicted by building designers
2. Displacement Ventilation System at Coolidge Corner School
3. Town Hall renovation (2008) and all new school buildings are designed to be LEED certifiable, often reaching Silver or Gold levels
4. Apply for utility incentive grants to retrofit buildings
5. Now looking at long-term options and scoping feasibility studies to remove fossil fuel systems from existing public buildings
6. Driscoll School designed to be fossil-fuel free
7. Pierce School feasibility work to include climate action goals of zero emissions by 2050
8. Solar panels on schools: Runkle built with solar panels, Coolidge Corner School is solar-ready
9. In partnership with Planning, Building, Purchasing, Town Counsel's Office - team working on solar panel agreements on town-owned properties (including tax implications)
10. Most buildings (including schools) have:
 - a. variable frequency drives with occupancy sensors to move air around
 - b. Routine load-shedding program to reduce peak demand energy use and increase energy-efficiency operations
 - c. LED lights including occupancy sensors and auto-dimming based on daylight levels, most recently installed in Baker School, New Lincoln to be phased in soon
 - d. Hand dryers in restrooms
 - e. Heating Recovery Units (a.k.a Recovery Wheel), which separates hot/cold air efficiently as air leaves buildings
 - f. High efficiency condensing boilers
 - g. Demand Control Ventilation for CO2 (in lieu of continuously mechanically displacing air)
11. Variable Capacity Chiller at Town Hall
12. Senior Center recently conducted energy efficient audits

Council on Aging & Senior Center

1. Loan program for medical equipment (wheelchairs, canes, etc.)
2. Collect, refurbish and redistribute eyeglasses, cell phones.
3. Offer shared transportation options for seniors (education as well as services).
4. Participation in pedestrian safety advocacy.
5. Education programs related to sustainability, including:
 - a. workshops about the Brookline Green Electricity Program
 - b. how to plan for a green funeral
 - c. programs for home modification, including MassSaves program

Department of Public Works – Solid Waste Division

1. Handles Household Hazardous Waste Drop-off program
2. Manages Sharps & Prescription Drug Program for the Town
3. Manages Fluorescent Tubes, CFL & LED Light Bulb Disposal
4. Manages Leaf & Yard Curbside yard waste program
5. Manages Simple Recycling bags (e.g., textiles, small household items, electronics & clothing)
6. Collects bulk metal items
7. Brookline’s Recycling program is ONE of TWO Massachusetts municipalities with the least amount of contaminants in our recycling (average 5% contamination)
8. Hybrid Pay as You Throw Program – now looking at routes of vehicles to be more efficient
9. Cardboard recycling also at Center Street west parking lot
10. Ongoing – look at state grants to help take other materials out of waste stream (e.g., potentially mattress recycling, swap shop, and other possible sites for compost drop-off)
11. Sells discounted backyard compost “Earth machines” for residents – residents can also drop off kitchen scraps at the Brookline Teen Center or to the Transfer Station on Hazardous Waste drop-off days
12. Researched curbside composting program – currently residents save up to 50% by utilizing a contract with a private company rather than a town-run program due to prevailing wages and current participation rates

Department of Public Works – Engineering & Transportation, Highway Divisions

1. Retrofit streetlights on streets to efficient LEDs
2. Managing install of EV charging stations along Beacon Street Median
3. Preparing for Feasibility Study of Bridle Path along Beacon Street Median
4. With Community Development Division, plan for new locations of bike sharing program stations (Blue Bikes)
5. Implementing Gateway East pedestrian and bicycle infrastructure (Washington Street – Route 9)
6. Manage Complete Streets Policy & Implementation Plan
7. In partnership with Public Schools of Brookline, staff Safe Routes to School Taskforce

Department of Public Works - Parks & Open Space Division

Recently Completed

1. Completion of 2019 Open Space and Recreation Plan
2. Back-of-sidewalk street tree planting program
3. MGL Street Tree Protection
4. Purchased 24 battery operated handheld leaf blowers and 42 batteries and set up an evening recharging station to replace existing handheld blowers

5. Constructed bioswale, dry & wet meadows at Fisher Hill Reservoir Park
6. Constructed wildflower meadow edge at Brookline Avenue Playground for low maintenance and high biodiversity plantings
7. Incorporated expanded bike and scooter parking areas at the Pierce, Lawrence and Runkle Schools
8. Incorporated permeable pavement into the Riverway Crossing
9. Completed the Route 9/Washington Street Emerald Necklace Bike/Pedestrian Crossing, including LED Lights, significantly opening up opportunities for non-motorized transportation
10. When synthetic turf fields are renovated, replace crumb rubber infill with natural material (such as coconut fiber used at both the Coolidge Corner School and being used at Harry Downes Field) and use reflective coating on turf fibers to help reduce heat island effect.
11. Replace lights with LED fixtures at Linden Square & Linden Park
12. Constructed new community garden in North Brookline at Lawton Playground

In Progress

1. Conservation Commission is working to identify, document and map all perennial streams in Brookline
2. Conservation Commission requires the use of permeable paving surfaces as appropriate as part of project/development permitting process
3. Creation of a pollinator path for Fisher Hill Reservoir Park to identify plants and habitat that support native pollinators
4. Division goal to plant 2 trees for every 1 removed
5. Muddy River Restoration & Flood Control Project Phase I & II – Climate Resiliency
6. Invasive Vegetation Management townwide with phased Master Plans for Halls Pond, Griggs Park and Dane Park
7. Sustainable Turf Management – Allow certain non-irrigated perimeter turf areas to be cut every 10-12 days as opposed to every week.
8. Purchasing 2 large format commercial grade zero emission pieces of electric lawn mowing equipment (stand up and rider mower with 52" & 60" mowing deck)
9. Implementing IMMS (irrigation maintenance and management system) technology to remotely monitor and control water use and timing at large irrigation systems town-wide. This helps reduce over-usage, identify leaks, reduce wasted water and reduce the need to drive miles to manually turn off and then reset each clock during wet weather.
10. Landscape Architects working on enhancing Slow Street and Complete Street Initiatives
11. Purchasing additional bike accommodations for the Old Lincoln School
12. Supported the siting of Blue Bikes in Town
13. Roll out the replacement of all standard drinking water fountains with accessible bottle refill stations
14. Roll out solar compactor Big Belly & Recycling hubs at the entrances to each park and eliminate many small individual barrels within the park to reduce driving/emissions through the park, maximize efficiency of staff and enhance safety of the park visitors.

Finance Department including Purchasing Division

1. In partnership with Planning, Building, Purchasing, Town Counsel's Office - team working on solar panel agreements on town-owned properties (including tax implications)
2. Tax Assessor's Office offering assistance to Town staff in developing a cost model with a green factor/index for municipal capital projects
3. Tax Assessor's Office looking towards getting inspection services online
4. Significant progress towards becoming a paperless office (optimizing building space needs)
5. Utilizes a procurement policy for purchase of green alternatives for cleaning & office supplies (Town- and School-wide)
6. Elimination of bottled water, Styrofoam containers, and plastic bag purchases by Departments
7. Moving towards purchasing all-electric vehicles for Town "pool" (cars shared by several departments)
8. In partnership with Planning, Building, Purchasing, Town Counsel's Office - team working on solar panel agreements on town-owned properties (including tax implications)

Human Resources

1. Runs discounted BlueBikes program for employees as employee benefit
2. Runs walking program to incentive employees to walk during the day
3. Looking at participation this year in regional walk/bike/use mass transit/ use micro-mobility get-to-work days
4. All paperwork digital except for those files required to be kept in hard copy by law (optimizing building space needs)

Information Technology

1. Leads permitting programs to help all Departments reduce the creation of new paperwork
2. Assists Departments with scanning programs to reduce the storage of existing paperwork (optimizing building space needs)
3. When computers and cell phones can no longer be refurbished, work with a certified contractor to properly salvage and recycle parts (including heavy metals, etc.)

Planning & Community Development Department

1. In partnership with Planning, Building, Purchasing, Town Counsel's Office - team working on solar panel agreements on town-owned properties (including tax implications)
2. Assist with funding to continue energy efficiency upgrades to public housing
3. With Transportation Division, plan for new locations of bike sharing program stations (Blue Bikes)
4. Assist low-income residents regionally to participate in bike sharing program (Blue Bikes)
5. Manage Brookline Green Electricity, the Town's community electricity aggregation program

6. Recently secured multiple funding sources for Electric Vehicle charging infrastructure along Beacon Street
7. Policy Review Assessment underway of all Town Policies related to Climate Change & Resiliency (MVP Grant) - Outcome will feed into the Zoning By-law re-write and then the creation of Site Plan Review Guidelines

Public Health Department & Emergency Management Team

1. Primary partner in Brookline Farmer's Market, including integrating program for low-income households to more easily make subsidized purchases at the Market as well as weekly health inspections & permitting during the season
2. Celebrate National Food Day, encouraging people to shop local at the Brookline Farmer's Market and buy extra food which is donated to Brookline's two food pantries
3. Grows vegetables in raised beds and other containers outside building for summer garden
4. Support annual Car-Free School Day now known as Walk, Bike, Roll to School Day
5. National Public Health Week activities include Climate Adaption Challenge, "climate-conscious" recipes
6. Promotes wellness programs that addresses illnesses and conditions exacerbated by climate change (especially extreme heat and cold weather events) and populations disproportionately affected – e.g., Brookline Buddies program
7. Identifies properties occupied by vulnerable residents to aid emergency evacuation efforts
8. Coordinates with hospitals, nursing homes, and group homes to ensure they have Continuity of Operations plans so they can perform essential functions during emergencies

Public Library of Brookline

1. Biodegradable thermal receipt printer paper.
2. Green Seal Certified toilet paper & paper towels.
3. Cleaning supplies from Genesan: ECOLOG certified, Green Seal certified, USDA biopreferred.
4. Trash liners are 70% recycled content, cartons are manufactured from recycled content and printed with water-base ink, encourage dumping of dry trash to reduce bag use.
5. LED upgrades at Coolidge Corner Branch, motion sensors.
6. Solar panels on the roof of the Putterham branch.
7. Energy management software in use at all 3 library locations, including: boiler reset schedules, mechanical & lighting occupancy schedules, roof top unit (RTU) economizers that draw in fresh air.
8. Collect e-waste and transfer to DPW for recycling.
9. Book bike to travel around to community spaces "bookmobile."
10. In partnership with Police Department, reused two abandoned/found bikes for staff to commute between branches.
11. Sell and donate extensively books that are no longer needed at the Library.
12. Can check out the Kill A Watt Energy Meter for residents to discover "plug loads."

13. "Library of Things" program – residents can check out board games, cake pans, coloring books, record players, telescopes, technology like ipads and streaming devices, etc. - allows for less consumption by residents.
14. Programs, including how to create sustainable/biodegradable alternatives for food storage instead of plastics.

Public Safety (Fire & Police Departments)

1. Implementation of multi-faceted, multi-year program to reduce firefighter's exposure to potentially toxic chemicals inherent in suppression activities.
 - a. Establishing policies and procedures for gross decontamination and mandatory secondary cleaning of all exposed firefighters turnout gear and uniforms.
 - b. Mandatory personal hygiene protocols after exposures.
 - c. Environmental zoning in all fire stations to reduce the spread of contamination to living areas through HVAC controls using sustainable energy HVAC solutions.
 - d. Refurnishing all fire stations non-porous furnishings where possible to facilitate ease of cleaning using recycled content materials whenever possible.
2. Conform to all NFPA training standards to limit personal and environmental exposures during training activities.
3. Utilizing energy-efficient vehicles for all fire staff vehicles.
4. Moving towards implementation of Warrant Article 23, passed at Spring 2019 Town Meeting.
5. Continue to explore ways to reduce environmental impacts during all fire suppression and hazardous materials operations.

Public Schools of Brookline

1. Parent-Teacher Organizations leading green teams
2. Shorten extended school program from 6 weeks to 5 weeks (decrease energy consumption)
3. Recycle paper & cardboard
4. Green cleaning & paper products
5. In partnership with Recreation Department, storing them overnight in Brookline instead of driving them back and forth to Somerville

Recreation Department

1. Pool –
 - a. Building - Motion lights and faucets, auto low water toilets & air dryers
 - b. Green Cleaning Supplies
 - c. Water bubbler in lobby has 1 liter water filler
 - d. They donate lost and found clothes
 - e. Recycle – paper, cardboard, and hope to add plastic recycling in future
 - f. 3 of 4 lifeguard chairs are made of milk cartons
2. Brookline Town Course – Golf

- a. Recycle – food vendor & facility recycle cardboard and paper (and plastic in the future)
 - b. Green supplies in use on course grounds
- 3. Soule – Early Childhood Education
 - a. Green cleaning supplies in use
 - b. They don't allow single use containers; they use glasses and plates
 - c. They compost
 - d. Motion lights and faucets
- 4. Eliot – Main Office
 - a. Green cleaning supplies
 - b. Commercial compost bins
 - c. Recycle paper and cardboard