

SUSTAINABLE BUILDINGS & ENERGY

ENERGY EFFICIENCY IMPROVEMENTS

- Zero emissions by 2050

Outreach to residents & businesses on energy conservation (**REDUCE ENERGY USAGE**) – including mass save, energy start

- **BUSINESS & MULTI-FAMILY SELF-AUDITS AND RECOGNITION PROGRAM**
- Adopt a building energy reporting & disclosure ordinance (**EXCEPT SINGLE FAMILY HOUSES ONLY AT TIME OF SALE**)

Energy “smackdown” – friendly competition between town, school buildings, residential blocks, etc.

Electrify everything – we must incentivize getting homes/businesses off natural gas.

Educate public on the different impacts of gas, electric & oil for heating.

Phase out gas stoves/ovens (e.g., induction burners)

Phase in electric space heating (e.g., heat pumps)

Offer rebates to residents who solarize, replace fossil fuel heat and air conditioning with electric options (mini splits, geothermal, air, hydro & install EV chargers)

Green revolving fund for residents (or town, businesses) to make improvements

- Solarize Brookline model → HVAC of built environment
- Look at federal CDBG funds to assist low-income residents

“Heat Smart” program from Mass Clean Energy Center & Dept. of Energy Resources (heat pumps & solar)

Green House Fest & Green House Expo (for contractors)

Pilot Geothermal Program – when gas pipes are replaced, put in district heat-coordinate with HEET

Fossil fuel-free municipal buildings

- **REDUCE ENERGY USE BY 20% BY 2020** – requires audits & implementation

Solar photovoltaics on roofs & parking lots

- Consider town-owned, not just power purchase agreements (PPA)
- Coolidge Corner School.

Opting up to 100% renewable energy for **RESIDENTS, BUSINESSES & TOWN**

Increasing % of default renewable energy via Brookline Green Electricity

Green building policy: **(1) MUNICIPAL (2) BROOKLINE (3) REGIONAL INFLUENCE**

- Use International Living Future Institute ILFI's living building challenge as community guide & municipal policy
- State building stretch code needs to be revised
- Help transform building stock to climate-neutral & sustainable

Plan for electric vehicle future with parking requirements and charging

Complete municipal & renewable energy feasibility studies to guide policy, long-term planning, renovations, community programs, etc.

- **INSTALL X MEGAWATTS OF SOLAR PHOTOVOLTAIC ARRAYS ON MUNICIPAL BUILDINGS**
- **ENTER INTO NET METERING AGREEMENTS**
- **FEASIBILITY OF GEOTHERMAL HEAT PUMP**

Have comprehensive community choice aggregation (Brookline Green Electricity) program plan

REDUCE PLUG LOADS AT OFFICE, PUBLIC BUILDINGS & SCHOOLS

Green guidelines for **DEVELOPERS** & in all municipal feasibility studies

- **NET ZERO/ZERO EMISSIONS ON NEW SCHOOL PROJECTS**

No asphalt, PBC, & other toxic materials

Remove windows & solar panels from the purview of preservation commission. Let owners in local Historic District go green more easily.

- Or educate what can be done without commission review.

ESTABLISH ENERGY USE INTENSITY GOAL OF 25 & LEED PLATINUM FOR NEW SCHOOL BUILDINGS

- Establish min. DUE of 30 & Leed silver

EXPLORE PASSIVE HOUSE ENERGY PERFORMANCE FOR AFFORDABLE HOUSING AS A FOUNDATION FOR "NEW ZERO"

CREATE ENERGY-EFFICIENCY INCENTIVE & FREE ENERGY-AUDIT PROGRAMS WITH UTILITIES & COMMERCIAL/MULTI-FAMILY SECTOR

ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH UTILITIES TO ADVANCE ENERGY EFFICIENCY & RENEWABLE EFFORTS & FACILITATE DATA SHARING

ESTABLISH A FASTER PERMITTING PROCESS FOR NEW CONSTRUCTION OR MAJOR RENOVATIONS THAT INCLUDE RENEWABLE/EFFICIENT ENERGY

RESEARCH/PROVIDE GUIDE FOR ENERGY EFFICIENT MEASURES COMPATIBLE WITH HISTORIC PRESERVATION & FOR ALL HOMES

- **ALSO INCLUDE VULNERABILITY/RESILIENCY STRATEGIES – FLOODING, BACKFLOW**

DEVELOP INCENTIVE PROGRAMS

- **CONVERSION TO LED LIGHTING**
- **ENERGY STAR APPLICANCE REPLACEMENT**

LAUNCH COMMUNITY SHARED SOLAR PROGRAM

LAUNCH AIR SOURCE HEAT PUMP BULK PURCHASING PROGRAM THROUGH MASS CEC

PUBLICIZE AVAILABLE SOLAR PHOTOVOLTAIC & SOLAR THERMAL BULK PURCHASING PROGRAMS FOR RESIDENTIAL PROPERTIES

IMPLEMENT STREAMLINED PERMITTING & REDUCED FEES FOR RENEWALABLE ENERGY SYSTEM INSTALLATIONS

DEVELOP AN OUTREACH/SUPPORT PLAN TO REMEDIATE PROPERTIES IMPACTED BY MOLD AS A RESULT OF FLOODING

ENCOURAGE USE OF MICROGRIDS, DISTRICT ENERGY, & BATTERY STORAGE TO KEEP CRITICAL FACILITIES FUNCTIONING IN THE EVENT OF POWER LOSS

EXPLORE JOINT PROCUREMENT OPPORTUNITIES WITH MAPCE TO PURCHASE EMERGENCY GENERATORS & PUMPS

ALERT HOMEOWNERS TO FLOOD INSURANCE SAVINGS FOR THOSE WHO ELEVATE ABOVE BASE FLOOD LEVELS

PRIORITIZE RETROFITS & EMERGENCY PLANNING FOR TOWN FACILITIES VULNERABLE TO FLOODING/HEAT IMPACTS AND IF THEY SERVE AS SHELTERS