

Zero Carbon Buildings Municipal Summit - Resource List V1

Definitions and Background Information

Embodied Carbon:

Embodied Carbon Definition

- BuildingGreen definition and associated articles

Operational Carbon:

Energy Efficiency Definition

- BuildingGreen definition and associated articles

Both:

Life Cycle Assessment Definition

- BuildingGreen definition and associated articles

Embodied/Operational Carbon

- PennState presentation
- Highlights current research and tradeoffs

Architecture 2030 Actions

- Provides actions for new and existing buildings to obtain zero carbon emissions

Policies

Embodied Carbon:

Embodied Carbon Policy Toolkit

- Carbon Leadership Forum educational series and policy database

Zero Net Carbon Building Zoning

- Boston Planning and Development Agency presentation
- Minutes 13-32 summarizing the Embodied Carbon Policy Guidance

Operational Carbon:

Codes and Policies

- New Buildings Institute strategies, tools, and guides

Municipal Net Zero Playbook: Net Zero Buildings

- Metropolitan Area Planning Council (MAPC)
- Provides guidance on policies and strategies to transition to clean heating and cooling while maximizing energy efficiency and GHG reductions in MA.

Both:

Guidebook for Zero Emission Buildings

- City of Boston Department of Neighborhood Development
- Outlines key strategies and highlights multiple building types

Resources and Incentives from Mass Save, MassCEC, RMI, and BE+

Zero Energy Commercial/Industrial Incentive

- Mass Save technical expertise and financial incentives for ZNE projects

Passive House Incentives

- Mass Save Passive House incentives

Whole ASHP Home Pilot: A program that provides rebates for the installation of whole-home air-source heat pump systems.

Triple Decker Design Challenge: Review the winning designs for the program seeking replicable and scalable all-electric energy retrofit approaches for existing triple deckers.

Triple Decker Retrofit Pilot: With lessons learned from the design challenge, this program offers technical support, incremental financial incentives, and performance monitoring to implement high-efficiency, all-electric retrofits of triple deckers.

EmPower Massachusetts: An initiative that offers funding to support the exploration, development, and implementation of program models or projects that provide access to the benefits of clean energy for previously underserved populations in Massachusetts.

The Massachusetts RMI building electrification accelerator program has compiled an extensive Resource Library that they are sharing with other municipalities interested in promoting building electrification. This library includes legal and technical resources, campaign materials and communications tools, presentation slides, etc.. Please contact lisaclimatebrookline@gmail.com (Lisa Cunningham, Brookline) if you would like to learn more or get access to this file.

BE+ Net Zero Hub: includes the 2021 report on the Status of Net Zero Buildings in MA and the 2019 report on the cost of Net Zero Buildings in MA.