

Draft Newton Electrification Ordinance and Amendments to the Specialized Energy Code

Purpose

The City of Newton adopts this Ordinance in order to enable the City to participate in the State’s Fossil Fuel-Free Demonstration Project, 225 CMR 24.00. The purpose of the Fossil Fuel-Free Demonstration Project is to restrict and prohibit new building construction and Major Renovation Projects that are not fossil fuel-free in ten communities in Massachusetts. The Ordinance will protect the health and welfare of the City’s inhabitants and the environment by reducing greenhouse gases, which cause climate change, and by reducing other air pollutants.

The Ordinance requires new construction and Major Renovation Projects to use electricity instead of fossil fuels for heating and cooling systems and cooking and clothes drying appliances; and, for hot water, to use either electricity or thermal solar.

Definitions

“Department” means The Massachusetts Department of Energy Resources, as established by MGL chapter 25A.

“Commissioner” means the Commissioner of Inspectional Services of the City of Newton, as established by Section 5-16 of the Ordinances of the City.

“Fossil Fuel-Free Demonstration Project” means the project codified by the entirety of 225 CMR 24.00, enabling ten communities designated by the Department to require new construction and Major Renovation Projects to be fossil-fuel free, notwithstanding MGL chapter 40A; MGL chapter 142, section 13; MGL chapter 164; or any other general or special law to the contrary.

“Hospitals or Medical Offices” means a facility licensed or approved by the Department of Public Health to provide health care, including clinics licensed as health care facilities and facilities that provide substance use disorder treatment

services, including outpatient withdrawal management, opioid treatment programs, office-based opioid treatment programs, acute treatment services (inpatient detoxification), and clinical stabilization services.

“Major Renovation Project” means (a) low-rise residential additions over 1,000 square feet and additions exceeding 100% of the conditioned floor area of the existing dwelling unit, (b) additions over 20,000 square feet and additions that exceed 100% of the conditioned floor areas of the existing building for all building use types except low-rise residential, (c) Level 3 Alterations as defined in the International Existing Building Code (IEBC 2021) (which exceed 50% of the existing conditioned floor area) exceeding 1,000 square feet for low-rise residential, or exceeding 20,000 square feet for all other building uses, or (d) Change of use of over 1,000 square feet per International Energy Conservation Code (IECC 2021) Sections R505, or (e) change of use of over 20,000 square feet or change of use of 100% of the conditioned floor areas of the existing building for all building use types except low-rise residential, International Energy Conservation Code (IECC 2021) Sections C505.

“Research Laboratories for Scientific or Medical Research” means a building in which a laboratory procedure or research activity occurs, and where the building has an average ventilation at full occupancy greater than 0.5 cfm/sf. Such buildings shall provide the ventilation design documentation described in 225 CMR 23.00, Section C103.2, at the time of building permitting.

“Specialized Energy Code” means the building code in 225 CMR 22.00 and 23.00; including Appendices RC and CC, which add residential and commercial appendices to the Massachusetts Stretch Energy Code.

Applicability

The fossil fuel restriction applies to residential and commercial buildings located in the City that qualify as new construction or Major Renovation Projects, except as listed in the Section herein entitled “Exceptions.”

Exceptions

The requirements of this Ordinance do not apply to any of the following:

- A. Research Laboratories for Scientific or Medical Research;

- B. Hospitals or Medical Offices;
- C. Freestanding outdoor cooking appliances that are not connected to the building's natural gas or propane infrastructure;
- D. Freestanding outdoor heating appliances that are not connected to the building's natural gas or propane infrastructure;
- E. Emergency generators;
- F. Appliances to produce potable or domestic hot water from centralized hot water systems in commercial buildings with a gross floor area of at least 10,000 square feet, provided that the architect, engineer, or general contractor on the project certifies by affidavit that no commercially available electric hot water heater exists that could meet the required hot water demand for less than 150% of installation costs, compared to a conventional fossil fuel hot water system.

Waivers

The City will entertain waiver requests for Major Renovation Projects with respect to which an architect, engineer, or general contractor on the project certifies by affidavit that compliance with the requirements of the Ordinance will increase the costs of the project by 50%, compared to the costs of complying only with the requirements of the applicable (i.e., residential or commercial) specialized building code.

Application Requirements

When applying for a building permit for new building construction or a Major Renovation Project the applicant must submit documents with the application that identify the heating and cooling and hot water systems and cooking and clothes drying appliances that will be installed and used in the building.

Compliance

The Commissioner shall not issue any building permit for the construction of a new building or Major Renovation Project unless the applicant submits the documentation set forth in the Section herein entitled "Application Requirements." The Commissioner shall not issue a certificate of occupancy for any building subject to this Ordinance prior to inspection and confirmation that

the heating and cooling and hot water systems and cooking and clothes drying appliances installed in the building comply with the applicant's documents submitted pursuant to the Section herein entitled "Application Requirements."

Effective Date

This Ordinance shall apply to all building permits, special permits, and comprehensive permits issued **XXX** days after the approval by the Department of participation by the City in the Fossil Fuel Demonstration Project.

Amendments to the Specialized Energy Code

With adoption of the Fossil Fuel-Free Demonstration Project by the City, and upon approval by the Department, the following amendments to the Specialized Energy Code are adopted. These changes are enforceable by the Commissioner and will go into effect for any project seeking a permit after the effective date of this Ordinance.

a. Low-rise Residential Code (225 CMR 22 Appendix RC)

1. Sections RC102 and RC101 "Zero Energy Pathway" and "Mixed Fuel Pathway" shall not be permitted for use for new construction or Major Renovations.

b. Commercial and All Other (225 CMR 23 Appendix CC)

- i. Sections CC103 and CC105 "Zero Energy Pathway" and "Mixed-Fuel Pathway" shall not be permitted for new construction or Major Renovations, with the following exceptions:

1. Research Laboratories for Scientific or Medical Research;
2. Hospitals or Medical Offices;
3. Buildings heated with Clean Biomass Heating Systems as defined in 225 CMR 23, as the only combustion equipment;
4. Multi-family buildings over 12,000 square feet with permit application filed prior to January 1, 2027 may utilize gas or propane for domestic water heating as the only combustion equipment.