City of Cambridge Getting to Net Zero Action Plan

Building Energy Use Disclosure Ordinance (BEUDO) Amendment Proposal

Community Forum September 15, 2022 6:30 – 8:30 pm



Instructions for the public

You will join the meeting with video and microphone off



During the Q&A period we will answer written questions and use the Raise Hand feature to take verbal questions



You can type written questions or comments in the Zoom Q&A Panel



We are recording and will post the slides and recording to the BEUDO project webpage

Bottom Panel of Zoom Screen



- Background
- Overview of the amendment process
- Review of key components of the amendments
- Resources to support BEUDO buildings
- Next Steps
- Q&A





Cambridge Community GHG Inventory

BEUDO buildings are responsible for majority of building GHG emissions

2014 Building Energy Use Disclosure Ordinance

To encourage efficient use of energy and to reduce the emission of greenhouse gases, this Ordinance requires owners to annually measure and disclose energy usage. This Ordinance will authorize the City to collect energy usage data to enable more effective energy and climate protection planning by the City and others and to provide information to the real estate marketplace to enable its members to make decisions that foster better energy performance.

2014 Building Energy Use Disclosure Ordinance

BEUDO Applicability

- *Municipal*: parcels with 10,000 square feet or greater (beginning 2014)
- Residential: parcels with 50 or more dwelling units (beginning 2015)
- Large Non-Residential: parcels with 50,000 square feet or greater (beginning 2015)
- *Small Non-Residential*: parcels with 25,000-49,999 square feet (beginning 2016)

2014 Building Energy Use Disclosure Ordinance

By December 31, 2018, the Department shall review the effect of this Ordinance on improving energy performance for Covered Buildings. If energy performance for Covered Buildings has not improved significantly, the Department shall make recommendations to the City Manager as to whether amendments to this Ordinance or other measures are necessary to improve building energy performance for Covered Buildings.

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- 2017: Background policy research and analysis
- 2018: Straw proposal development with BEUDO property owner consultation
- 2019-2020: Proposal refinement
- 2021: CDD submitted proposed amendments to City Council on November 8th

Process

Overview (cont.)

- 2022: City Council process to consider BEUDO amendments
 - Multiple hearings held by Health & Environment and Ordinance Committees
 - Committee vote to shift net zero deadline from 2050 to 2035 (based on 2017 policy order)
 - Addition of flexibility mechanisms and alternative schedule for residential buildings
 - Ongoing small group meetings with BEUDO property owners and associations

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• Periodic policy review and adjustment

Key Changes to CDD Proposal in Council Discussion

- Performance requirement of reducing GHGs relative to individual baseline, in 5-year increments beginning in 2025, reaching net zero by 2050 for residential buildings and 2035 for non-residential buildings
- Default baseline is 2018-2019 average, but option to pick an early baseline with adjusted reduction requirements, new construction baseline of 0 starting in 2025
- Buildings can pick from onsite reductions (energy efficiency, solar, electrification); new offsite renewable energy; or Alternative Compliance Credits (ACCs); also traded and deferred ACCs, local and global carbon credits
- Specific pathway options for affordable housing, labs, and campuses, delayed compliance schedule and 2050 net zero target for residential
- Exemptions for net zero buildings and financial distress, and utility failure
- Periodic policy review and adjustment

Alternative Compliance Credits shall be equivalent to one ton of GHG emissions, and used by the City for City programs and projects to support GHG reduction

- ACCs start at \$234/ton, based on analysis of average cost of reducing emissions from BEUDO buildings, and adjusted over time based on actual costs
- Potential to take credit for GHG reductions paid for in other buildings beyond requirements
- Potential deferral of ACCs up to 10 years to execute capital improvement projects, assuming that cumulative GHG reductions are equivalent

Key Flexibility Mechanisms in Council Discussion

Carbon Credits are off-site measures to offset only the emissions from direct fossil fuel use of the building

- Carbon credits would be distinguished between local and global sources
- Use of carbon credits will be phased down over time, with global credits ending in 2035 and local credits ending in 2045
- > CDD would issue regulations to certify eligible carbon credits
- The cost of carbon credits would be subtracted from the cost of ACCs needed to comply in a given year

Key Flexibility Mechanisms in Council Discussion

Off-site **Renewable Electricity** can offset only the electricity use of the building

- Renewable electricity must come from new sources (purchaser-caused)
- Renewable electricity may come from anywhere in the country
- As the state electricity grid gets greener, buildings automatically get credit thanks to emission factors which are set by regulation
- The Cambridge Community Electricity aggregation program will also deliver increasing amounts of BEUDO-compliant renewable electricity

Key Flexibility Mechanisms in **Council Discussion** Delayed compliance for affordable housing and market rate residential buildings Non-Residential Buildings (blue) vs. Residential Buildings (orange)

2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050

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THE PATH TO A

The One-Stop Shop for Cambridge Buildings Over 25,000 Square Feet or 50 Units

Connect with energy efficiency services and technical support including:

- > Comprehensive planning services and support specific to your building
- Expert guidance, including a dedicated Eversource Energy Efficiency team, vendor referrals, and specialized building technologies
- > Energy Efficiency offerings and incentives tailored to your building type and size
- > Building Operator Certification training classes for facilities staff

Contact the Cambridge Building Energy Retrofit Consultant: (781) 441-3502 or <u>CambridgeEnergyConsultant@eversource.com</u>

Resource Hub

- Energy Efficiency Incentives for Commercial Buildings [PDF]
- Building Energy Use Disclosure Ordinance
- Retrofit Program
 Development Process Full
 Report [PDF]

- Cambridge Community Electricity: <u>www.masspowerchoice.com/cambridge</u>
- Cambridge Multifamily Retrofit Advisor and Cambridge Clean Heat: <u>www.cambridgeenergyalliance.org</u>
- Forthcoming state and federal resources

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Next Steps

Continued City Council consideration of potential amendments

- Ordinance Committee Hearing: ~October
- Full Council consideration and voting: ~late 2022/early 2023

Stay informed at www.cambridgema.gov/BEUDO

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Questions + Feedback

• Questions can be asked using the Q+A function

- Spoken questions/comments can be made by using the raise hand feature
 - If calling in, dial *9 to raise your hand / *6 to unmute
- In order to allow everyone to speak, please try to be brief
- The meeting is scheduled to end at 8:30 p.m.

www.cambridgema.gov/BEUD0

Thank You!

www.cambridgema.gov/beudo

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