



Energize Denver clarifying Ordinance

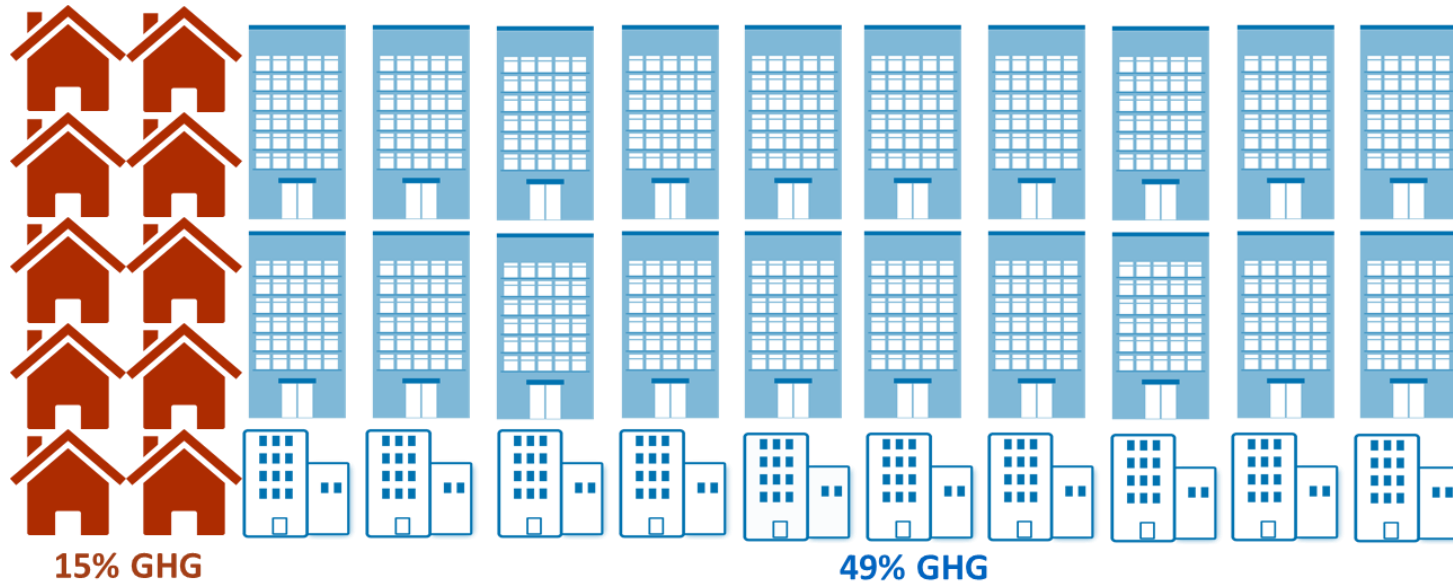
Denver City Council, BIZ committee, 8-17-2022

Agenda

- Recap of Energize Denver Ordinance passed by City Council November 2021
- BR22-0967: Amends Chapter 10 of the Denver Revised Municipal Code to clarify energy efficiency requirements of existing buildings.

Energize Denver Overview

Buildings and Homes are responsible for 64% of Denver's GHG Emissions



Denver has committed to eliminate greenhouse gas emissions by 2040. For buildings and homes, this means our goals are:

- All **new** buildings and homes “net zero energy” by 2030
- All **existing** buildings and homes “net zero energy” by 2040

Energize Denver Ordinance Sections

Benchmarking

- Annual reporting of energy performance
- Buildings 25K+ sq. ft.
- Results at www.energizedenver.org
- Implemented by CASR

Performance

- Required improvements to energy efficiency and solar
- Buildings 25K+ sq. ft, reduce energy use by 30% on average by 2030
- Buildings 5K to 25K sq. ft. – lighting upgrade or solar.
- Implemented by CASR

Electrification

- Required Partial Electrification of Space and Water Heat
- Upon System Replacement, when Cost Effective
- All Commercial and Multifamily Buildings covered by the IBC
- Building Code implemented by CPD, Education/Incentives by CASR

Energize Denver Electrification Requirements

Partial electrification of Space and Water Heat required in code upon System Replacement, when Cost Effective

Amending Denver Building and Fire Code	2023	2025	2027
Permit process changes to near parity in permitting between gas systems and electrification.	X		
Heat Pump Required upon Replacement of Easy-to-Electrify Equipment (furnaces, roof top units, individual water heaters) when cost-effective.		X	
Heat Pump Required upon Replacement of Hard-to-Electrify Equipment (PTACs, boilers, central hot water) when cost-effective.			X

Denver's Support and Resources

- Online resources and call-center support
- Additional technical assistance for Under-Resourced Buildings
- Steam Conversion Program
- Pilots for existing building electrification
- Electrification feasibility report and electrification incentives coming soon

Energize Denver Hub

Welcome to the Energize Denver Hub. This is your one-stop shop for all things related to the Energize Denver Requirements that were passed by the Denver City Council on November 22, 2021 and are based on recommendations from the Energize Denver Task Force.

Energize Denver will provide over \$1 billion in benefits to the City through avoided social cost of carbon, which is the cost of the damages created by carbon dioxide emissions, while providing co-benefits such as improved local and indoor air quality and reduced energy bills. As the buildings improve their energy use and lower the cost of operations, Denver will become a more competitive, attractive city for businesses and residents.

Benchmarking

By June 1st each year all buildings in Denver 25,000 square feet and larger are required to annually assess and report their energy performance using the free ENERGY STAR Portfolio Manager tool.

Resource Center

The Resource Center provides guides, links, and information to building owners and managers as they work to achieve Energize Denver Performance Requirements.

Under-Resourced Buildings

CASR is in the process of equitably co-creating additional support for under-resourced buildings 25,000 sq. ft. and larger to assist in meeting their performance requirements.

Regulation Basics

Here you can view detailed

Energize Denver Forms

Here you will find forms related to

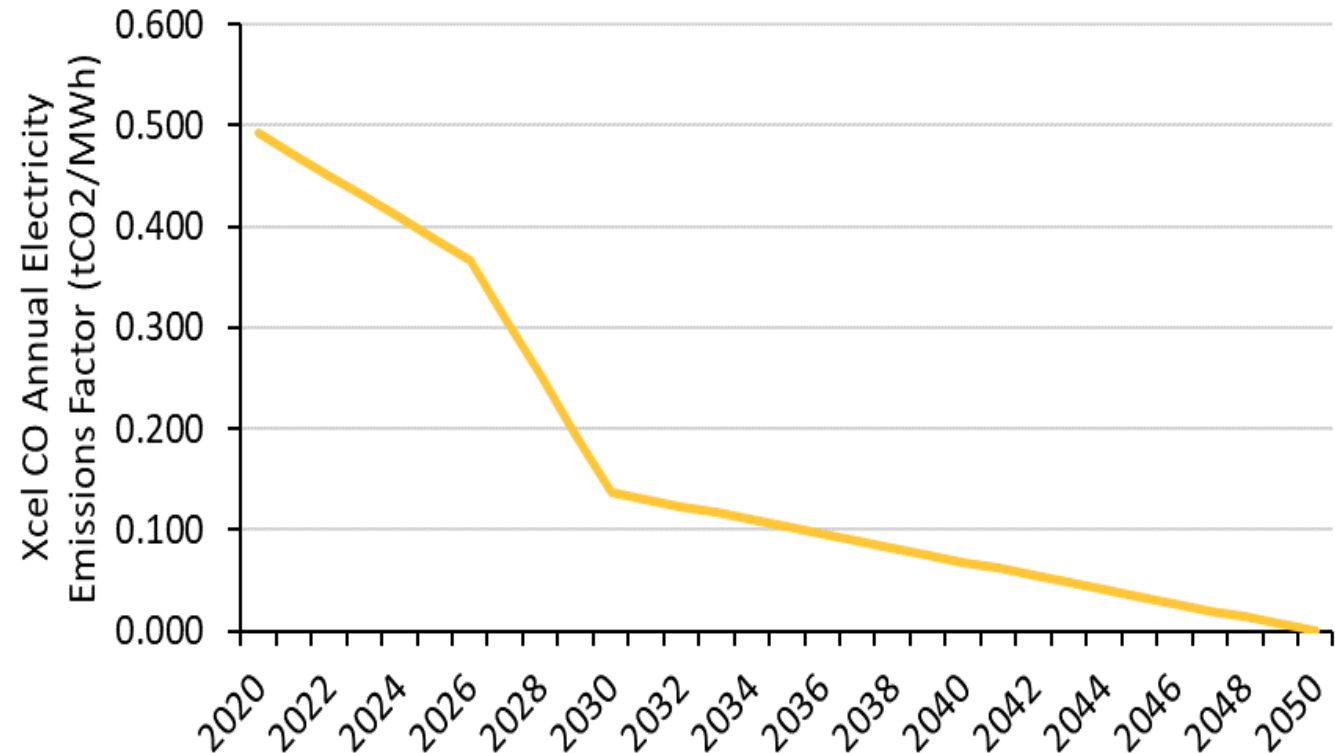
Find a Vendor: Energize Denver

Search for “Energize Denver Hub” -or-
www.denvergov.org/energizedenver

High Impact Climate Benefits

- Energize Denver will reduce emissions from buildings 80% by 2040.
- In addition, electrifying space and water heat reduces methane emissions, released when we use gas, which cause 80 times the amount of climate change as standard carbon dioxide emissions.

Zero Emission Electricity is Coming



Improved Equity and Safety

- In 30-40% of low-income homes in Denver, gas equipment fails carbon monoxide tests.
- Lower energy bills through energy efficiency reduce the energy burden.



Energize Denver clarifying items

Clarifying measure explained

- Page 1: Clarifies the ordinance applies only to commercial and multifamily existing buildings, not to single family homes.
- Page 1: Updates definition of ‘condensing unit’ to reduce repetition
 - Page 2: Same change to ‘unitary air conditioner’
- Page 1: Clarifies definition of ‘electrification retrofit feasibility report’ and removes ‘schematic design’.
- Page 2: Corrects typos in definitions.

Clarifying measures and changes explained

- Page 3: Changes implementation date from ‘January 1, 2023’ to ‘March 1, 2023’
- Page 3: Boilers are excluded from review prior to permitting in 2023.
- Page 3: Adds “unitary air conditioner or condensing unit serving a heated space”.
- Page 4: Removes “furnace” so all equipment must be correctly sized.
- Page 4: Removes “economic hardship” exemptions from 2023

Clarifying measures and changes explained

- Page 6 & 7: Removes 'schematic design'
- Page 7: The word 'space' is changed to 'water' to correct an error.
- Page 8: The word 'solar' is changed to 'renewable' and removes the word 'fully'.

Action Requested Today

Approve BR22-0967: Amends Chapter 10 of the Denver Revised Municipal Code to clarify energy efficiency requirements of existing buildings.

THANK YOU!



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