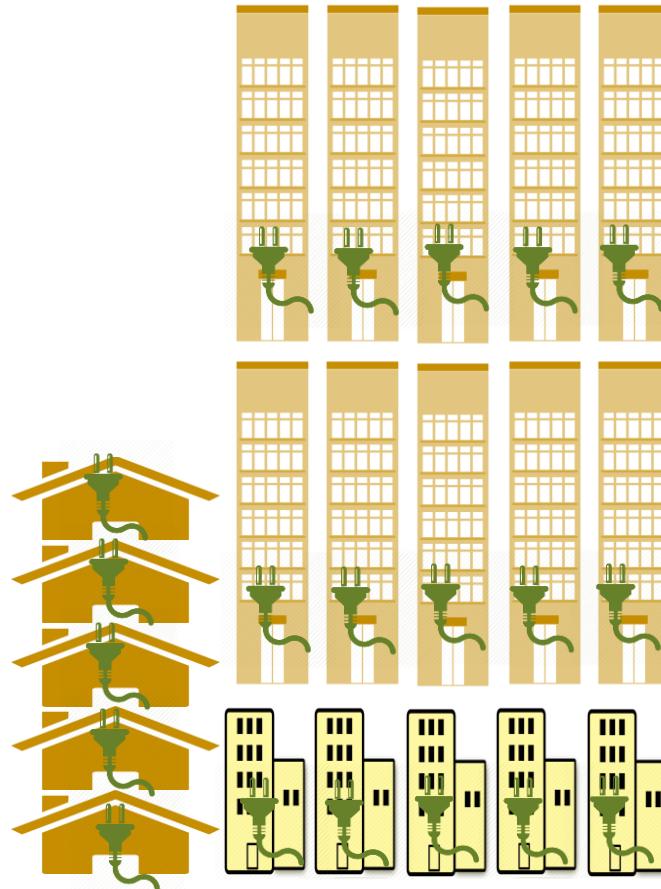




Commercial and Multifamily Buildings Account for 49% of Denver's GHG Emissions



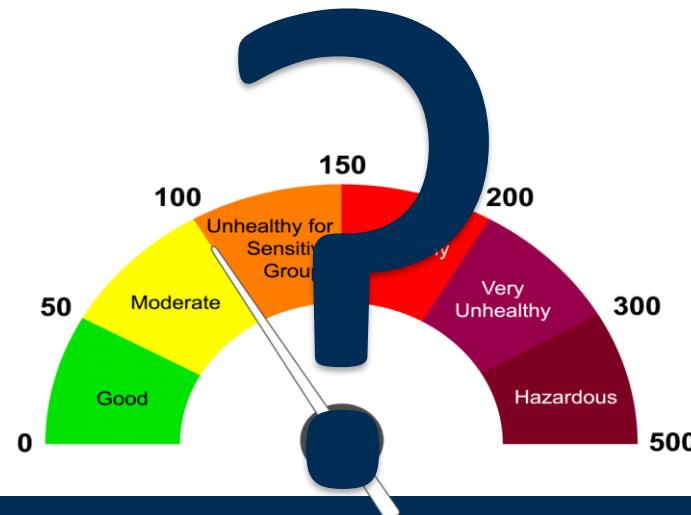
By 2050, ~40% of our building stock will be “new” construction



Denver Goal:
Net Zero Energy (NZE)
New Buildings by 2030

Health Impacts of Gas Combustion

- Indoor Air quality is largely unregulated and often worse than outdoor air quality. We spend 90% of our lives indoors.
- People of color are the least likely to have carbon monoxide detectors in their home.
- Children are particularly vulnerable to pollution from gas appliances. Kids growing up in a household with a gas stove are at a 42% increased risk of developing asthma



The transition to renewable electric heat is possible today

- Heat pumps are 200-300% efficient
- Heat pumps provide heating and cooling
- Like your refrigerator, heat pumps use electricity to move heat.



Example rooftop heat pump from Daikin.

Energize Denver Task Force

Charge: Help the City design a building performance policy for existing buildings that:

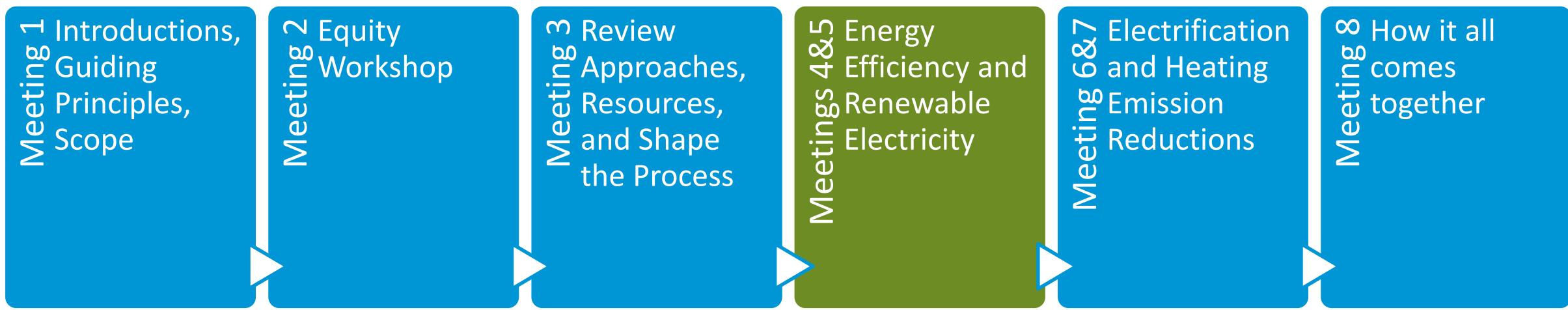
- *Improves Health and Equity*
- *Creates Jobs*
- *Drives Climate Solutions in Existing Buildings that Achieve Net Zero Energy by 2040*

The Energize Denver Task Force is focused on existing commercial and multifamily buildings



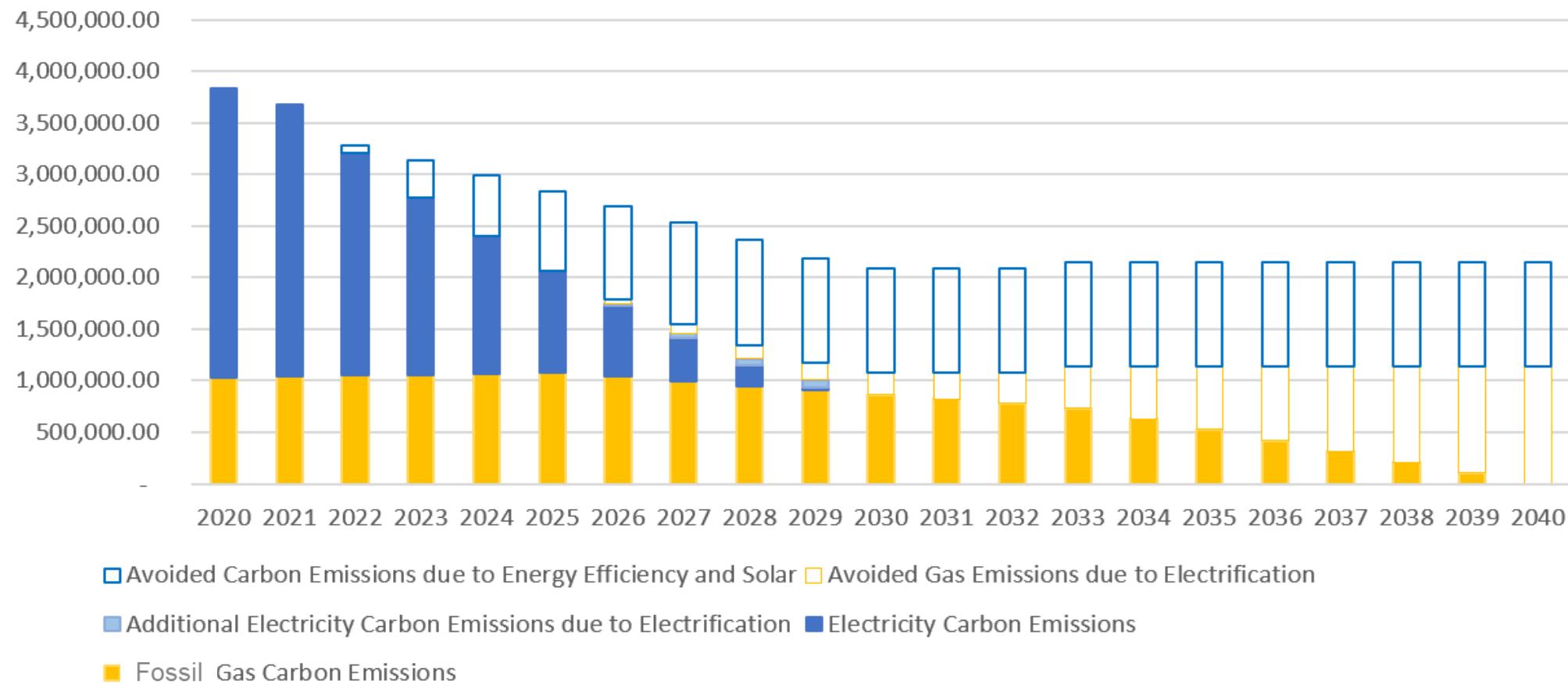
Not single-family homes

Task Force Draft Schedule

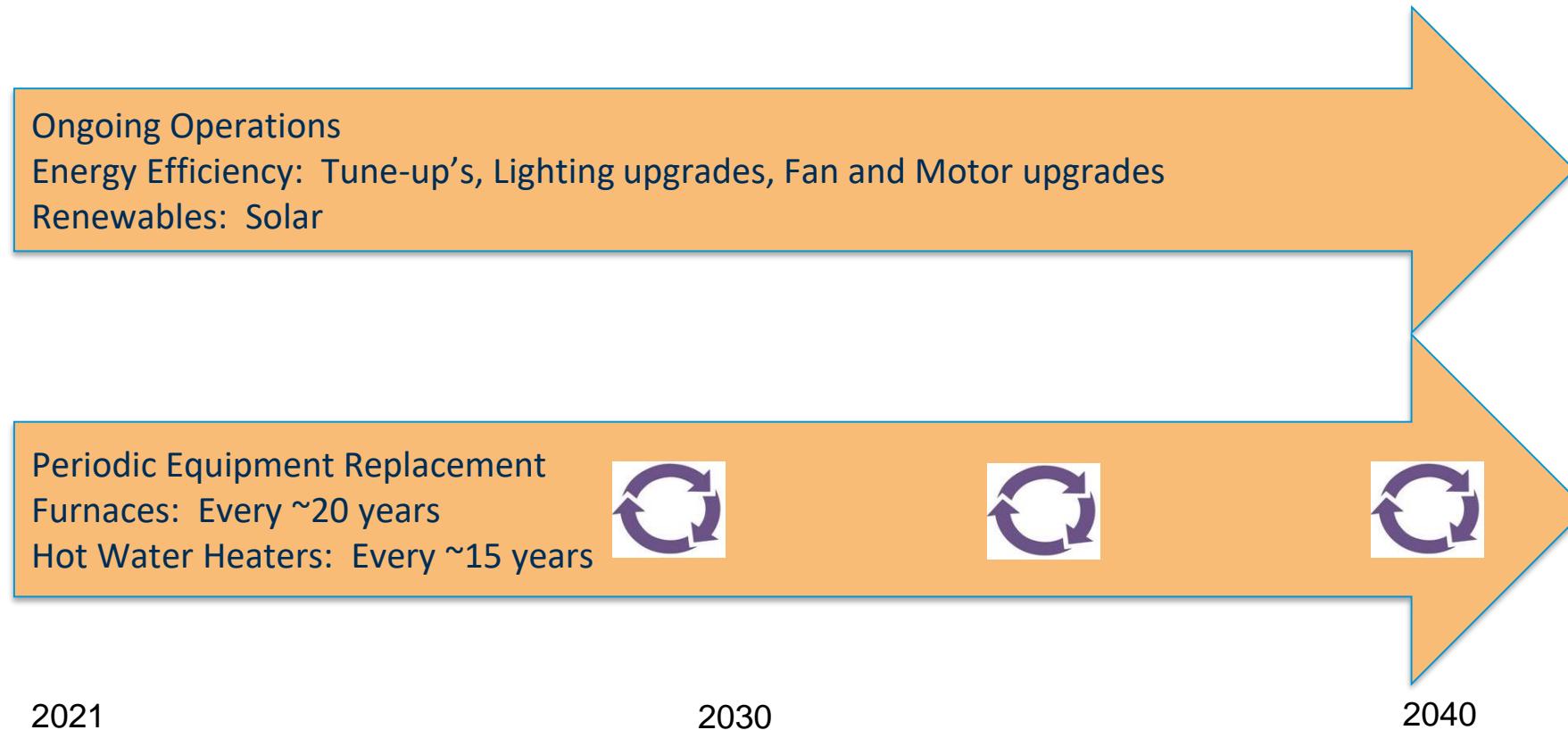


Workgroups:
Equity Workgroup
Workforce Workgroup
Climate Solutions Workgroup

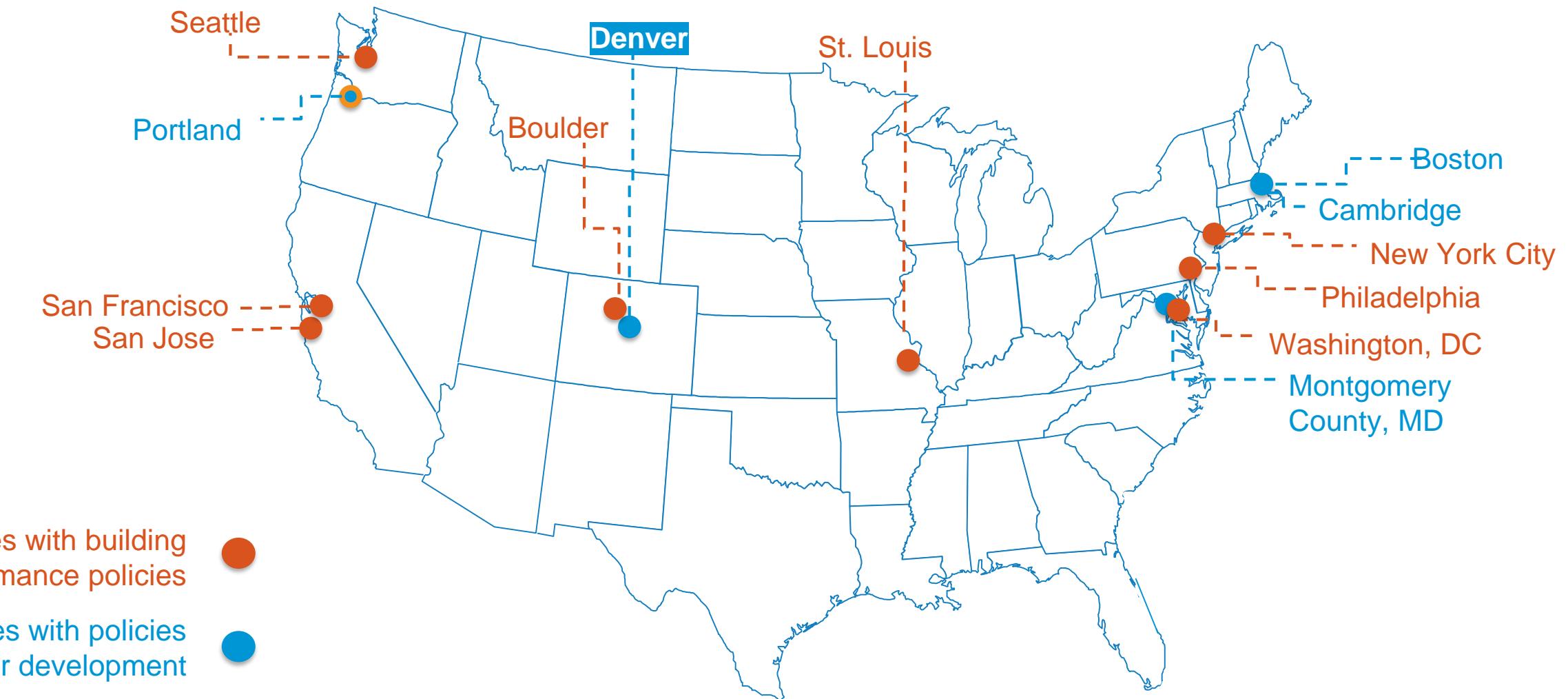
Goal of the Task Force: NZE by 2040



Energy Management in Buildings



Building Performance Policies in Other Cities

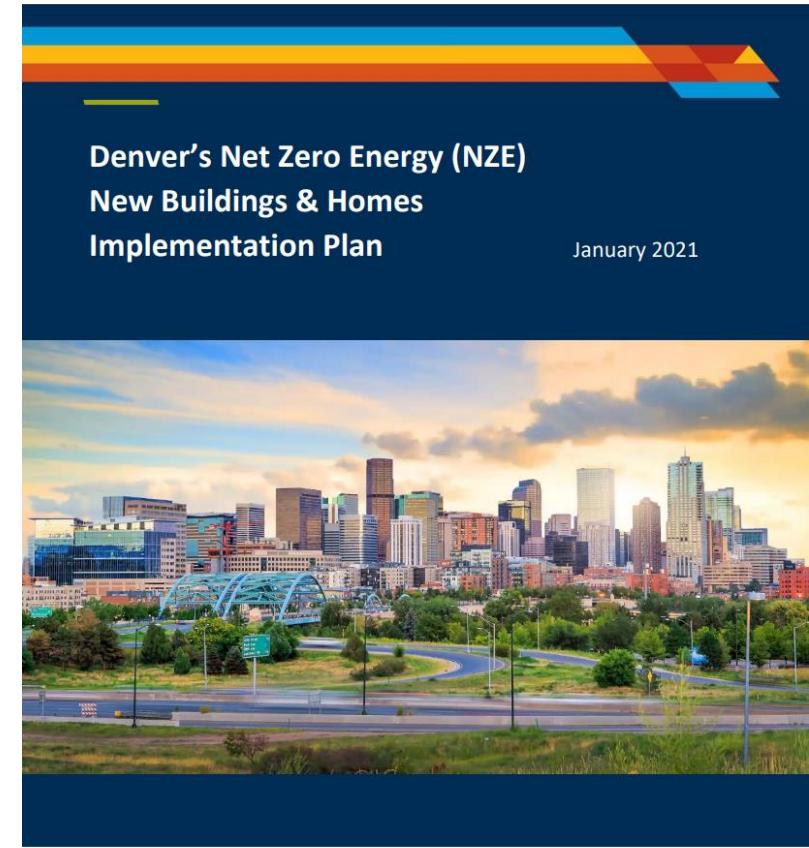


Net Zero Energy New Buildings

2021 Code Update

Net Zero Energy (NZE) New Buildings & Homes Implementation Plan

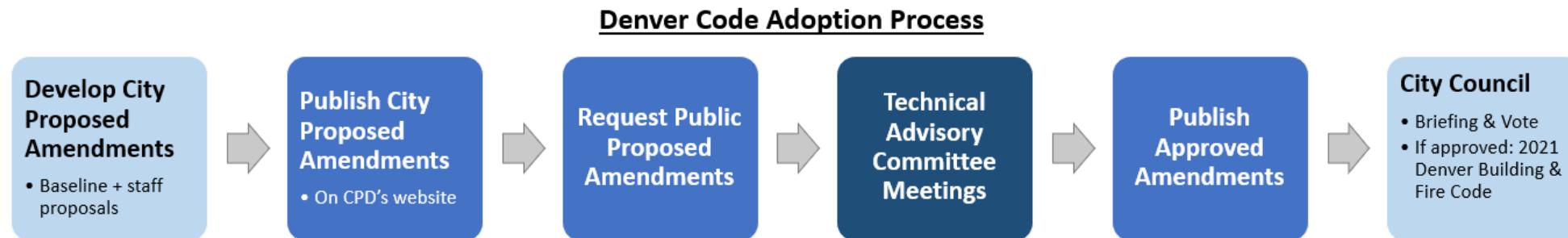
Released January 2021



Key finding: All-electric new buildings are lower cost to build and operate

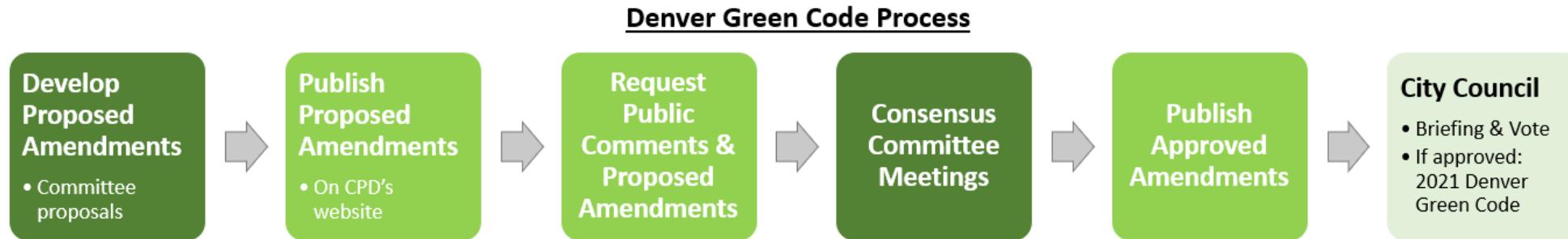
- All electric homes and buildings are 8-27% lower cost to build.
- All electric homes and buildings have lower operating cost by 2-10%.

Next Step: 2021 Code Update



Legend:

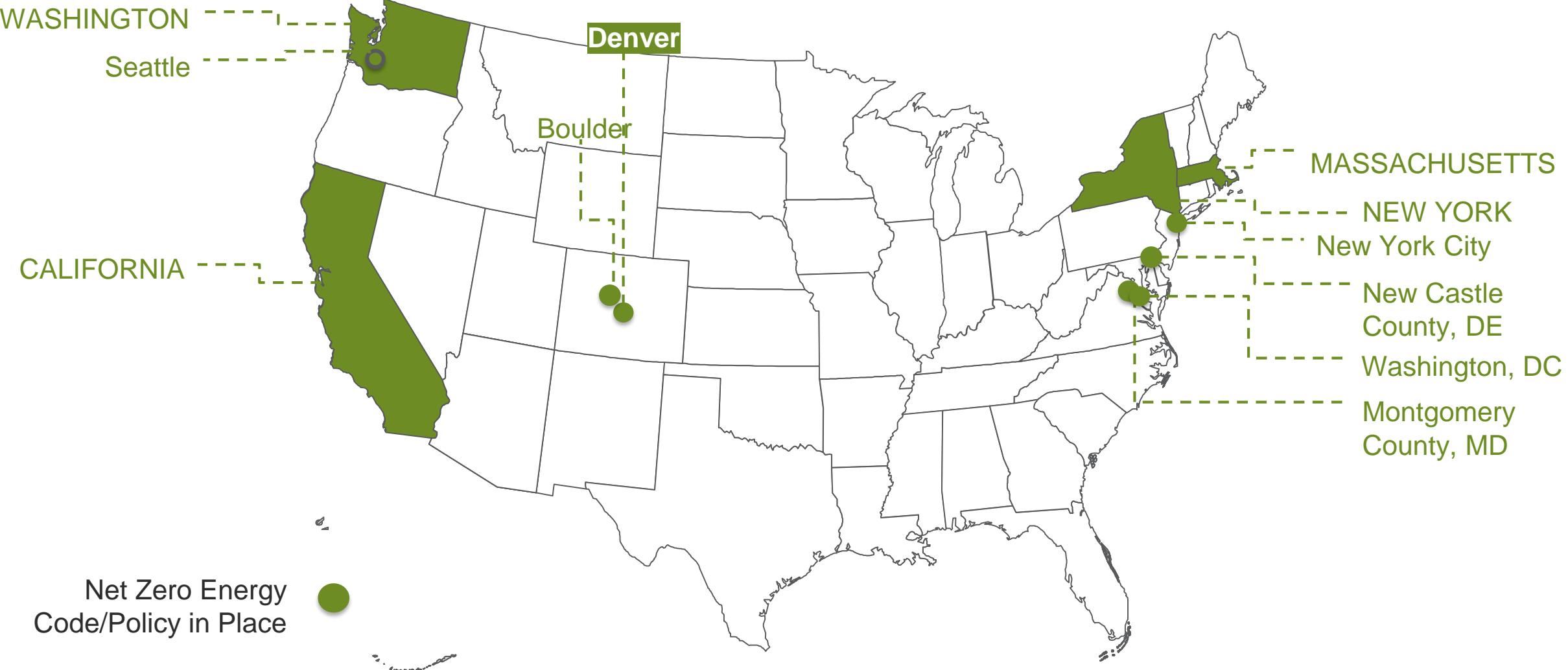
- City
- External/Public
- Code Technical Advisory Committee (Code Committee)



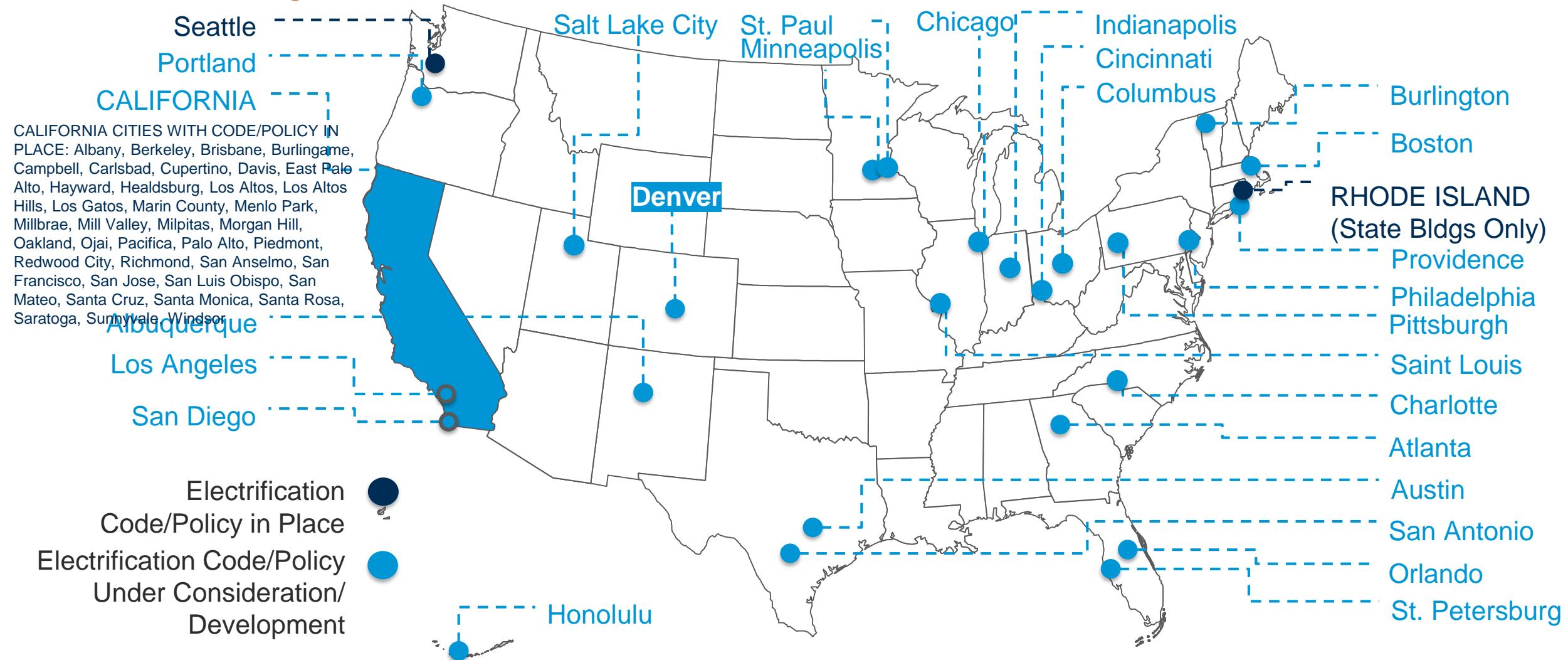
Legend:

- City
- External/Public
- Code Consensus Committee

Net Zero Energy Codes & Policies in Other Cities



New Building Electrification Codes & Policies in Other Cities





Thank you!