



Building Performance Standards 101



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Building Performance Standards 101: Why

- National Goals

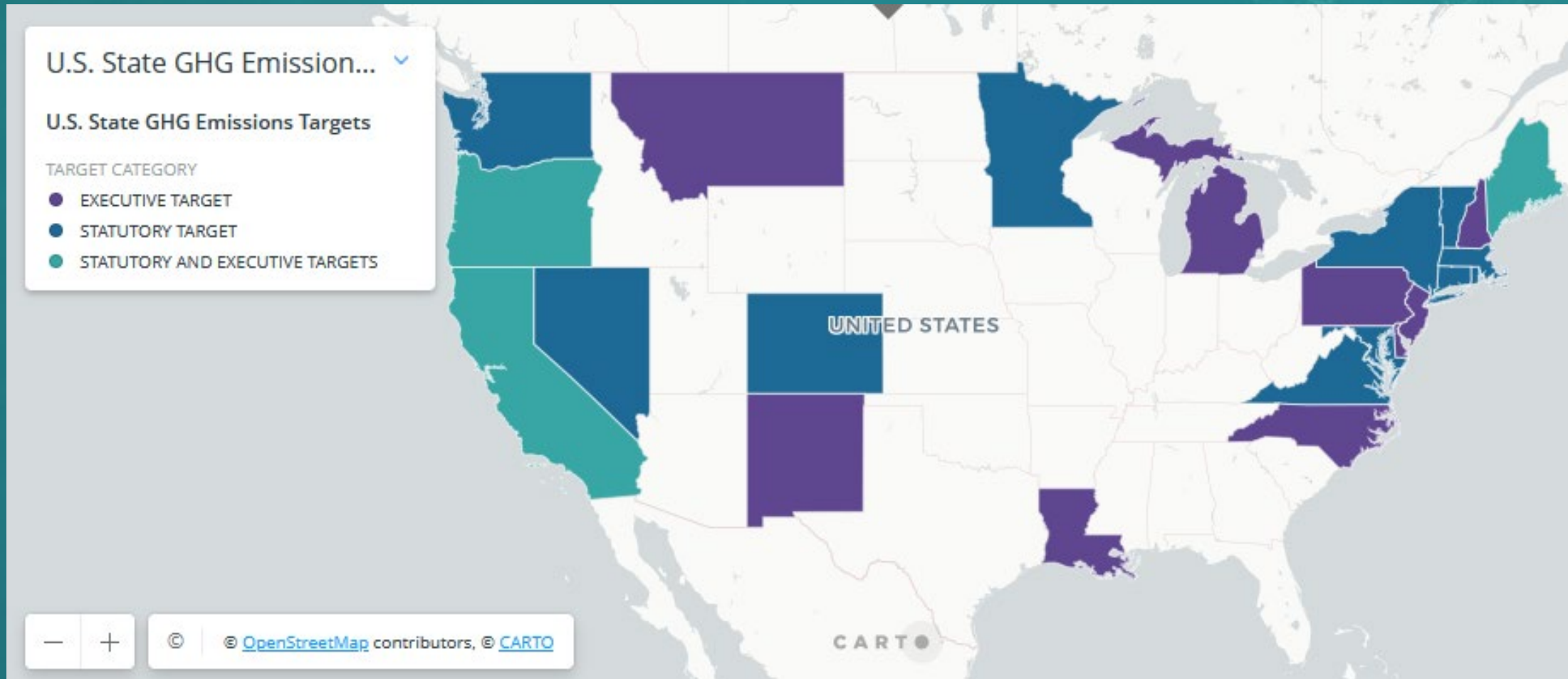
2030 : 50-52% GHG reduction of 2005 levels

2050 : Net Zero



Building Performance Standards 101: Why

- State Goals



2021

National Energy Codes Conference

Polling Question



Building Energy Codes

U.S. DEPARTMENT OF ENERGY

Building Performance Standards 101: Why

- City/Town Goals

Over 170 US Cities have
Carbon reduction Goals



Existing buildings are BIG energy users

- Nationally, buildings account for ~40% of total energy consumption¹

The percent increases in urban areas

- Buildings can account for 50-80% of total energy consumption²
 - Washington D.C. – 73%
 - New York City – 66%
 - Boston – 72%

¹ <https://www.eia.gov/tools/faqs/faq.php?id=86&t=1>

² https://media.rff.org/documents/Building_Performance_Standards.pdf

Building Performance Standards 101: What

Policy to improve performance across the existing building sector.

- Sets mandatory targets for existing buildings
- Can target a number of different aspects of a building
 - Energy Consumption
 - Carbon Emissions
 - Water Consumption
- Use many metrics
 - kWh, kWh/sqft.
 - CO₂, CO₂/sqft
 - Energy Score
 - Prescriptive/checklist



Building Performance Standards 101: How

BEPS Period 1:

Private buildings $\geq 50,000$ ft²
and DC-owned $\geq 10,000$ ft²

BEPS Period 2:

Private buildings $\geq 25,000$ ft²
and DC-owned $\geq 10,000$ ft²

BEPS Period 3:

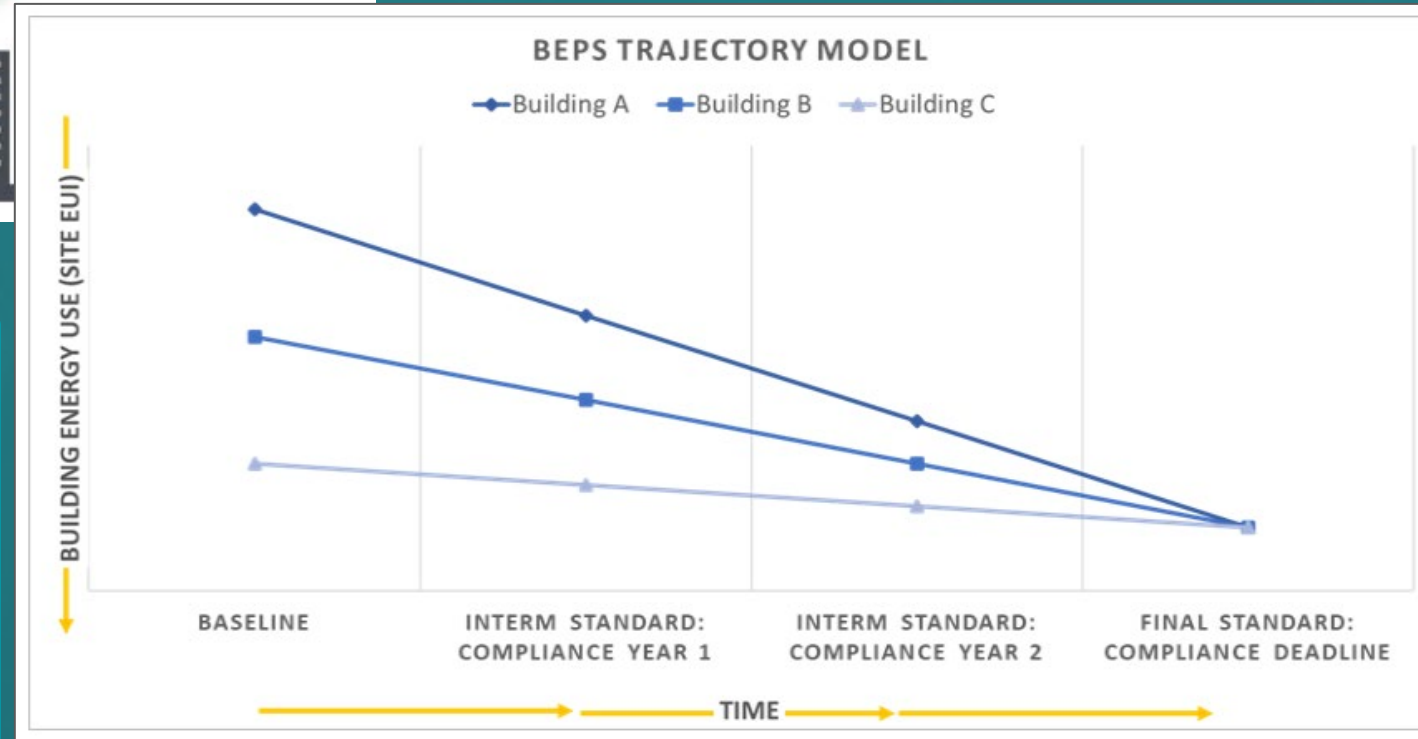
Private buildings and
DC-owned $\geq 10,000$ ft²



https://doee.dc.gov/sites/default/files/dc/sites/d DOE/publication/attachments/1_Guide%20to%20the%202021%20BEPS%20v1%203-30-21.pdf

• Two Common Components:

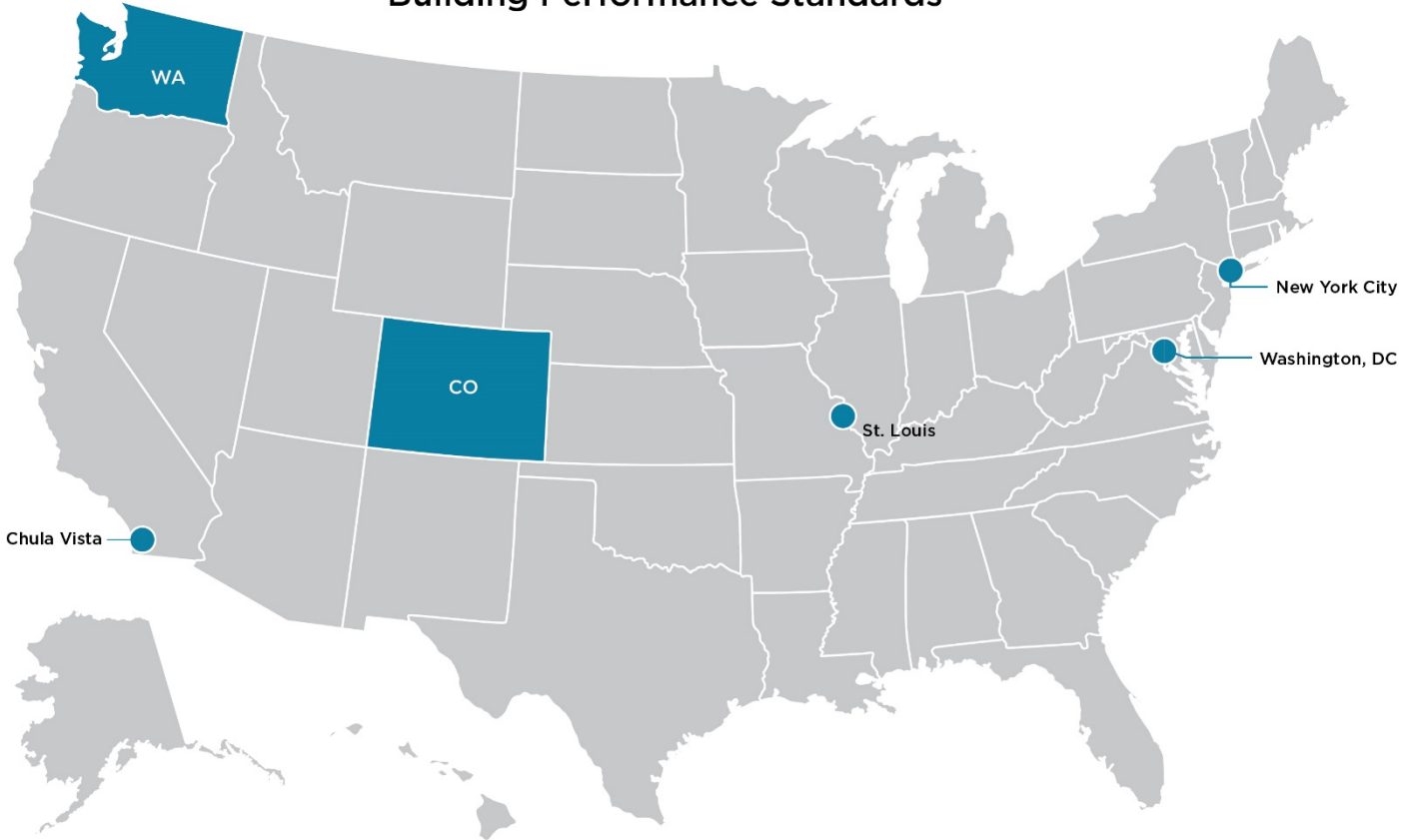
1. Decrease building threshold to include more buildings
2. Strengthen the performance Standard



Building Performance Standards 101: Where/Who?



U.S. City and State Policies for Existing Buildings:
Building Performance Standards



Building Performance Standards 101: Benefits



- Creates market signals for efficient products and a clean energy workforce
- Reduces energy spending for building owners
- Creates a revenue stream for municipal or state investment into decarbonization

Summary

What	Policy to improve performance across the existing building sector.
How	Mandatory performance targets that can become more stringent over time
Who	Policy mechanism for cities/towns, counties, states
Where	New York City, Washington D.C., St. Louis, Reno, Washington State, Colorado State
Benefits	<ul style="list-style-type: none">• Creates market signals for efficient products and a clean energy workforce• Reduces energy spending for building owners• Creates a revenue stream for municipal or state investment into decarbonization

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