

Energize Denver

September 4th, 2019

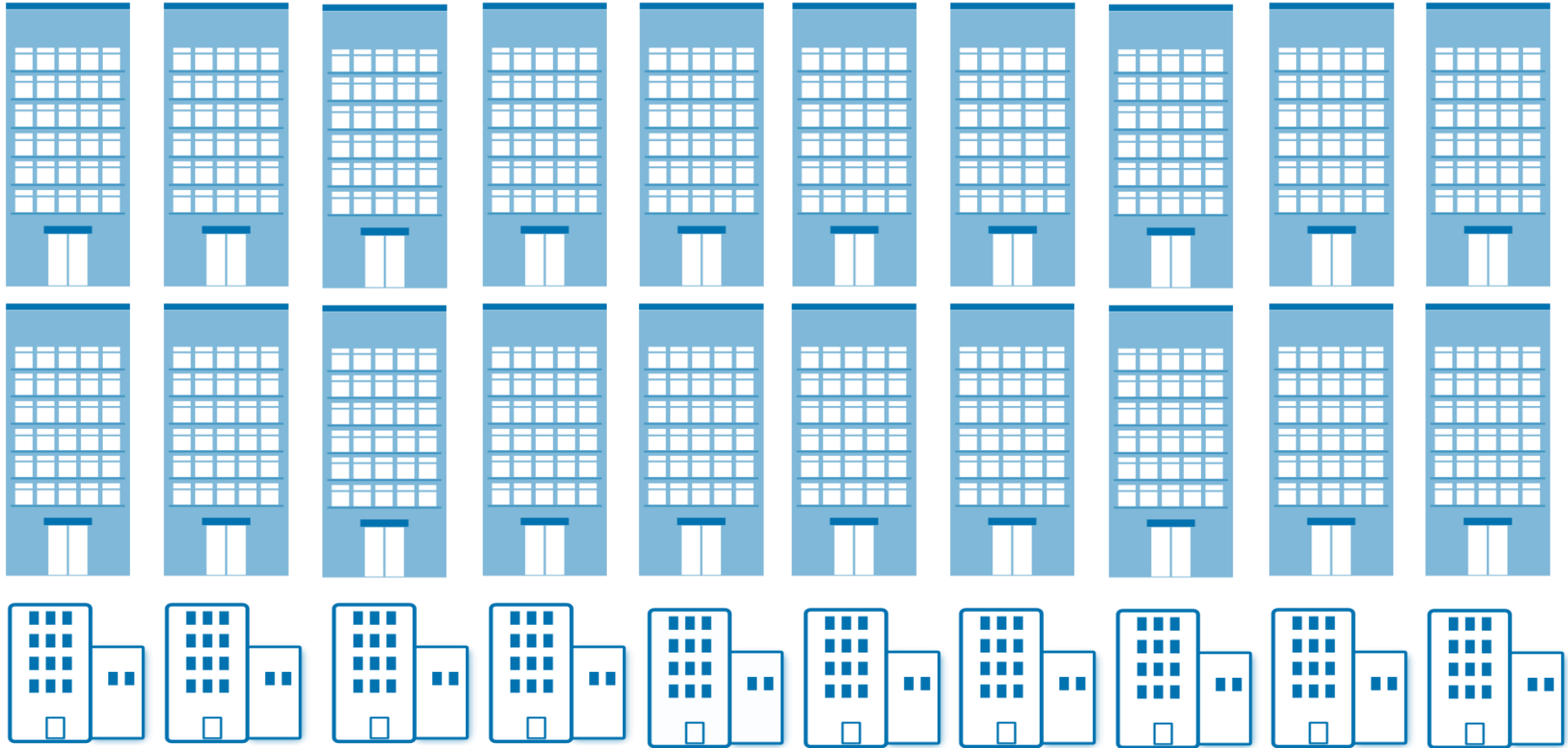


Existing Buildings and Homes

Homes and Buildings Account for 63% of Denver's GHG Emissions

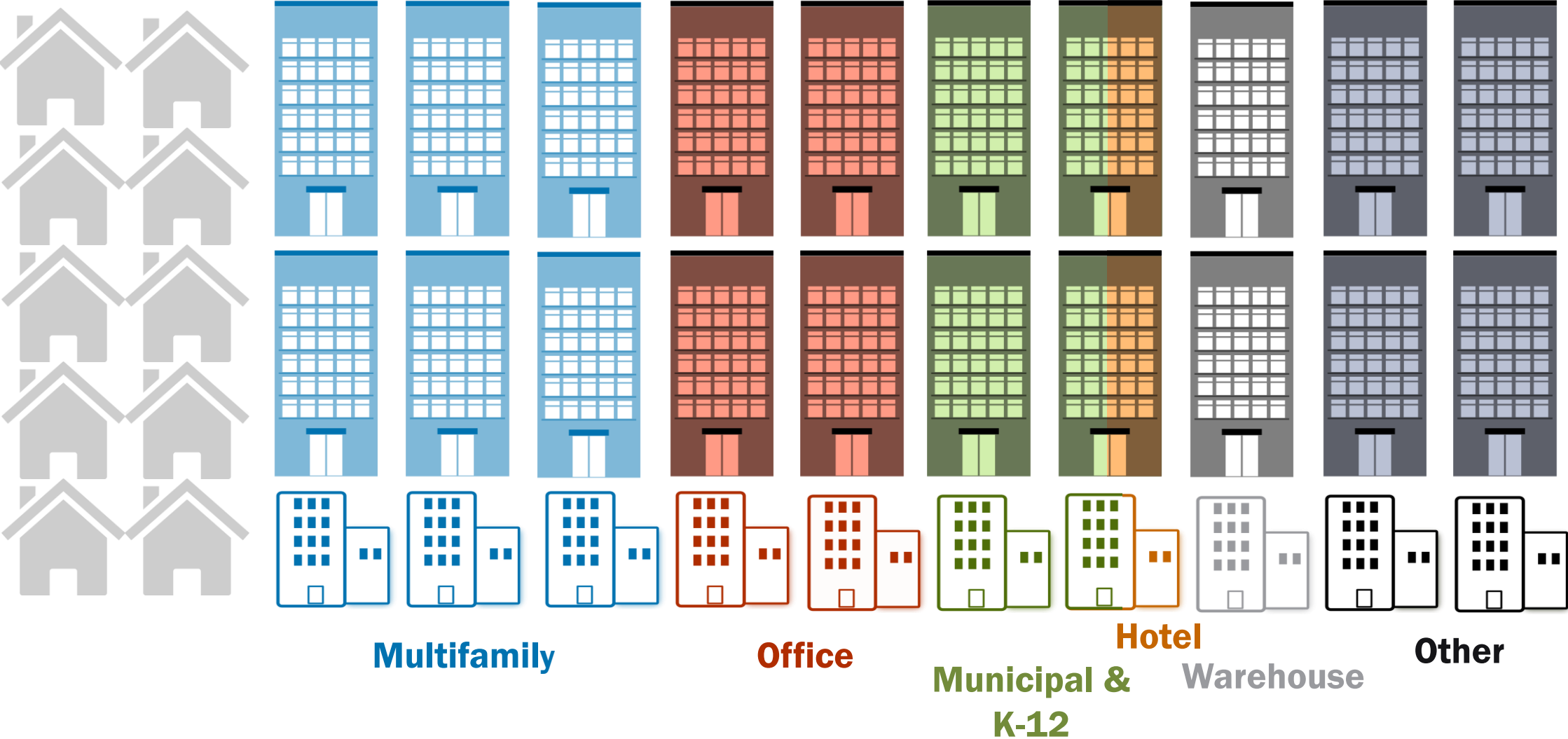


12% GHG

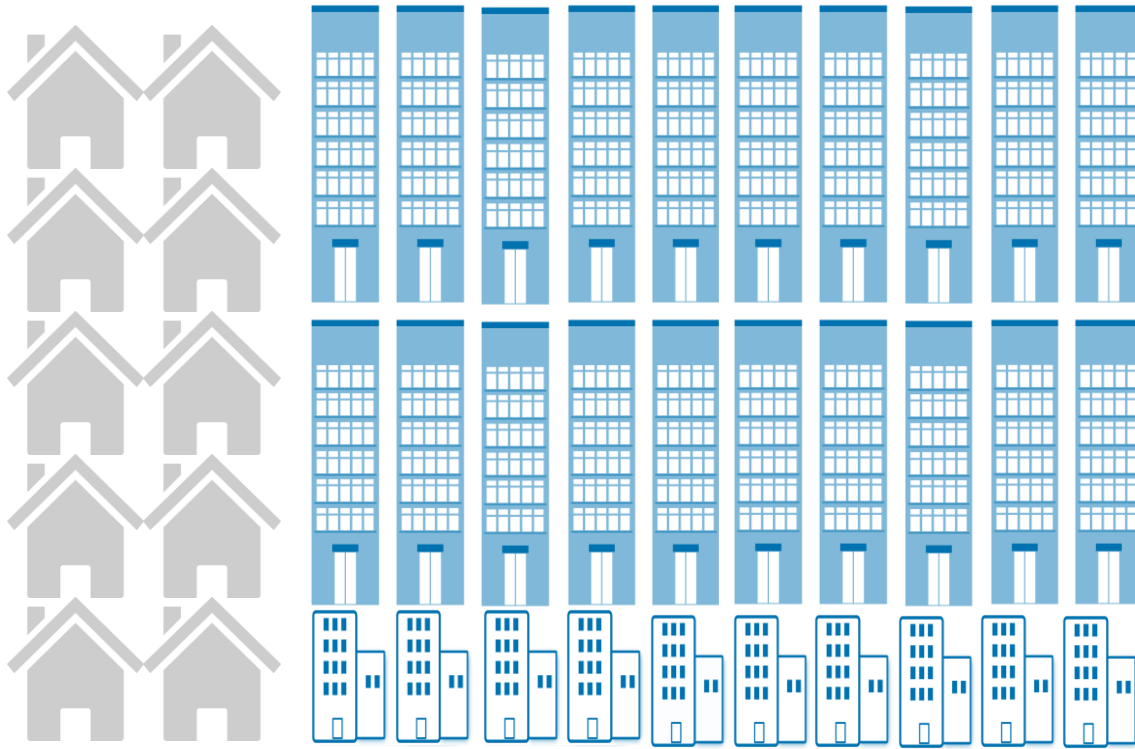


51% GHG

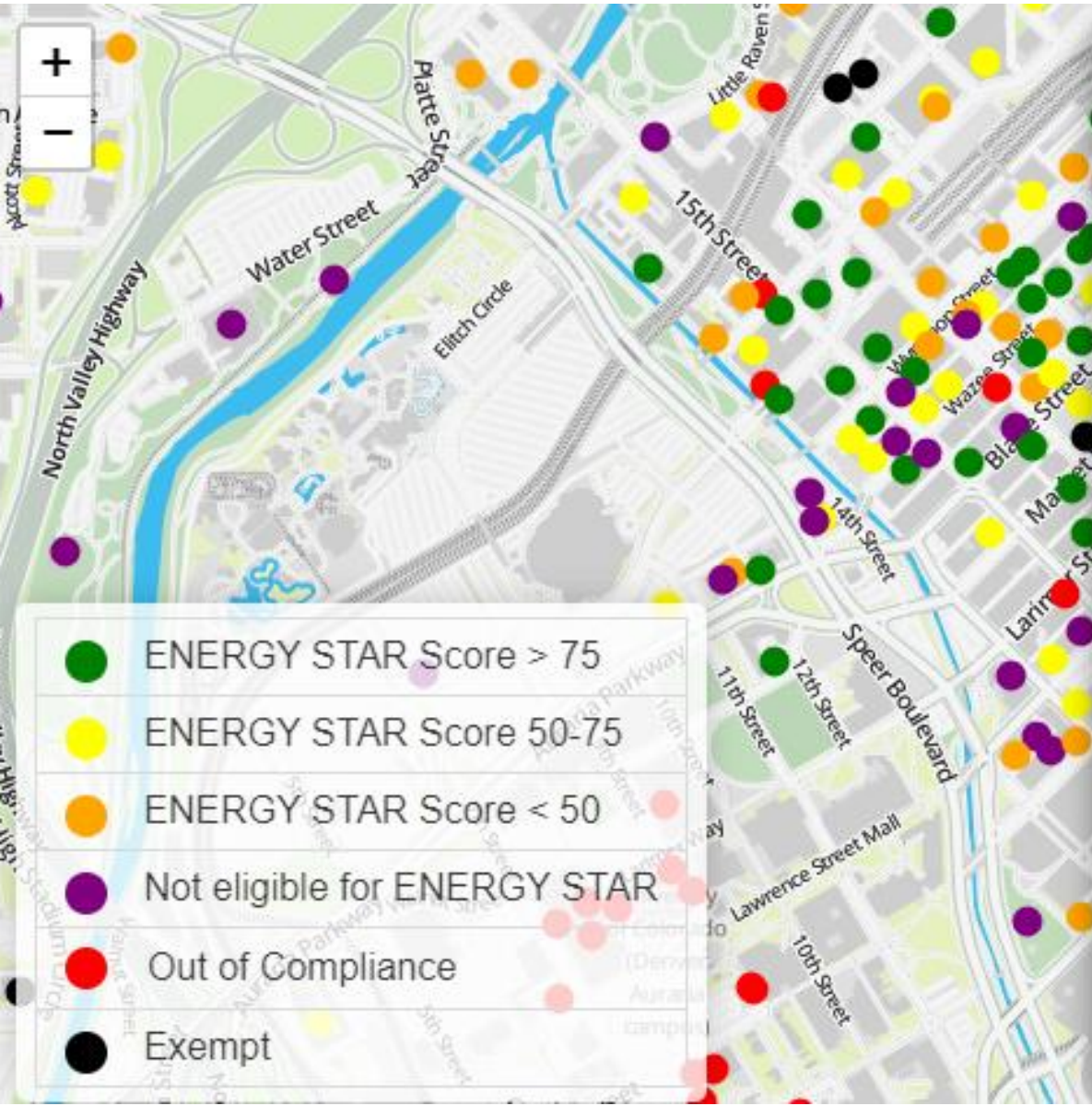
Building Square Footage by Sector



Denver's 80x50 Climate Action Plan calls for Commercial Buildings to reduce energy use 50% by 2050.



Benchmarking Data: www.energizedenver.org



Wellington Webb Municipal Office Building

201 W Colfax Avenue

ENERGY STAR Score

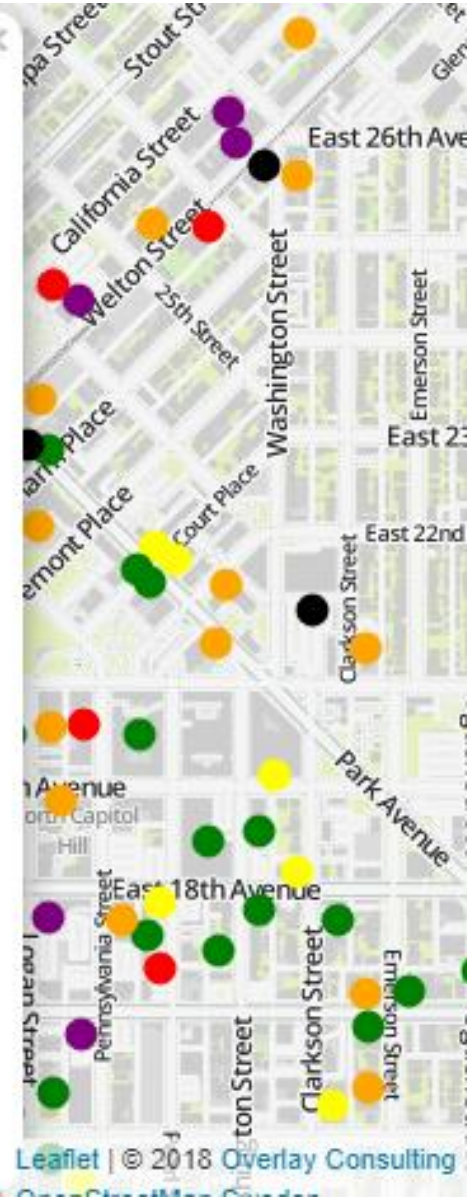
86

This building has the 3rd highest
ENERGY STAR score out of 22
Municipal Buildings in Denver.

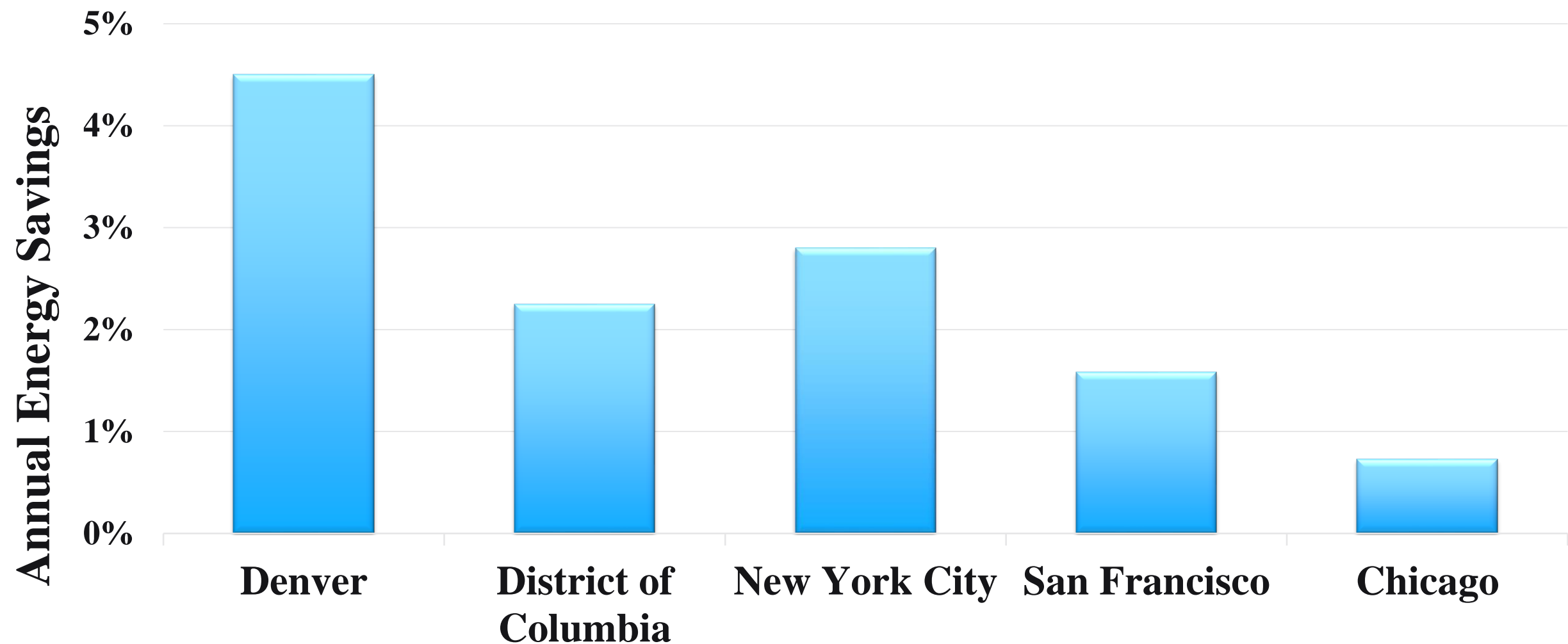
To achieve our City's Climate goals all
buildings need to become 30% more
energy efficient, which could annually
save this building **\$310,433**

[Similar Buildings](#)

[More Information](#)



Comparing Benchmarking Programs Nationwide



Green Buildings Ordinance, Energy Program: Compliance Options for Existing Buildings



At Roof Replacement: Cool Roof Required* plus ONE of the Following Options:



ENERGY STAR Score 85



**EUI Improvement
10-15%**

EUI + Offsite Solar



Onsite / Offsite Solar



**Green Building
Certification**

* If the roof is a character-defining roof, CPD may allow alternative roof materials

Energize Denver Energy Efficiency Awards: 1st Place Hotel 2018



Hampton Inn and Suites 1845 Sherman St.

- ENERGY STAR score improved from 52 to 98.
- 45 percent electricity reduction in 2017.

“Month after month, we are seeing a significant decline in our energy consumption and almost 30 percent reduction with our utility bills so far.”

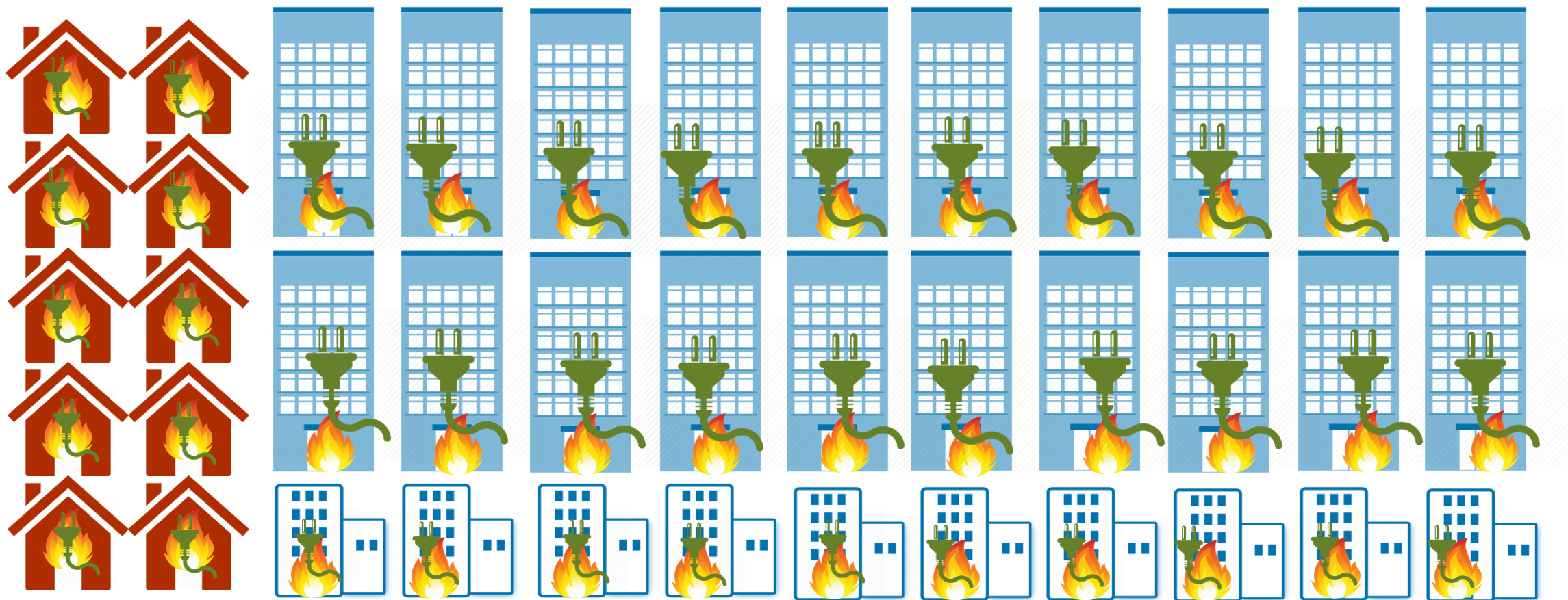
- Lamin Jobe, the hotel's chief engineer.



SMART LEASING DENVER

The program provides **tools**, **training** and **resources** to better align the interests of tenants and landlords to achieve **healthy, high-performance, energy-efficient** buildings **through better conversations** at all stages of the leasing process.

80x50 Goal: Heating Emission Reductions



By 2050, 100% of Heating Emissions must be eliminated

Strategic Building Electrification Roadmap

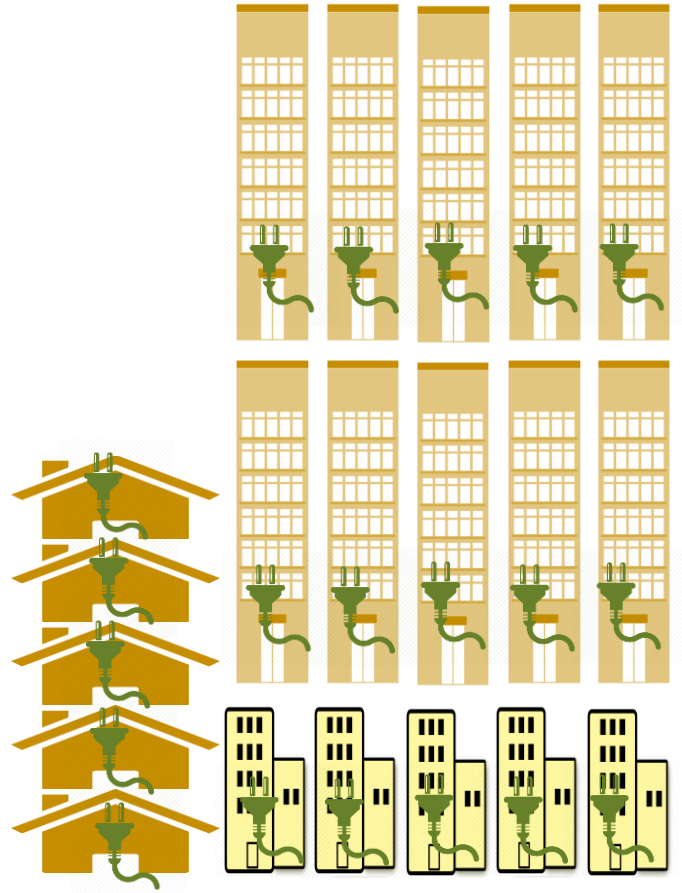
Under Development
in 2020





New Buildings and Homes

80x50 Goal: Net Zero New Construction by 2035



The IPCC tells us we must have net zero new construction in 2020.

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

Green Buildings Ordinance: New Buildings

Buildings over
25,000 sqft



Cool Roof
Required
+
ONE of the
Following
Compliance
Options

Compliance Options
for New Buildings



Green Roof / Space



Pay for Offsite Green



**Green + Solar or Energy
Efficiency**



Solar or Energy Efficiency

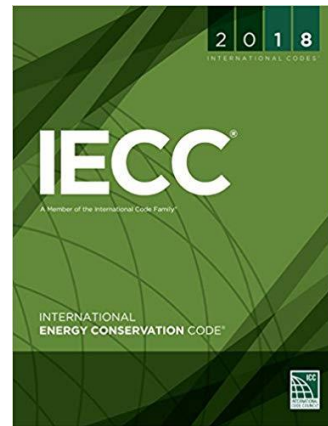


Certification

2019 Code Adoption Process



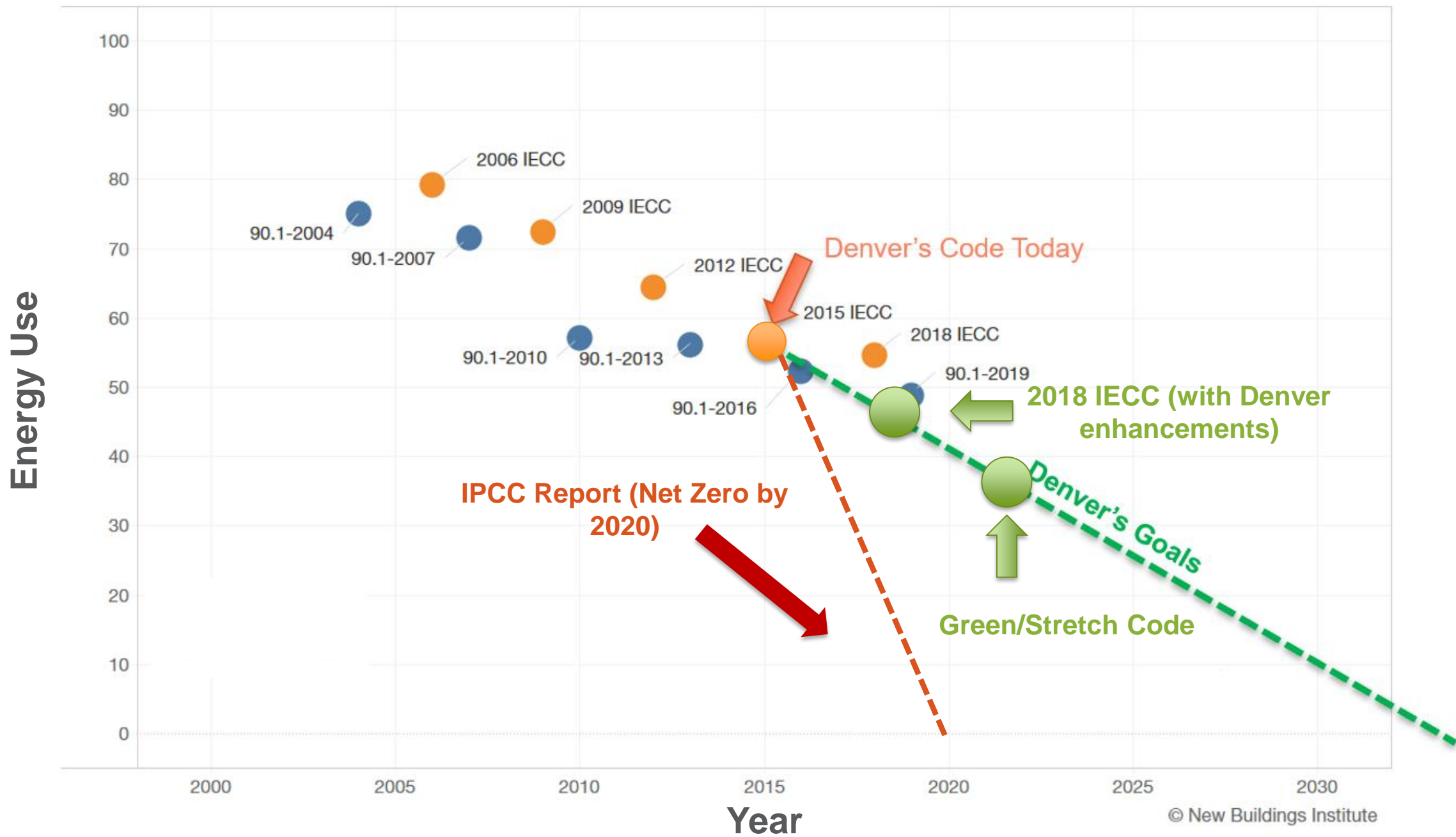
Base Code: IECC 2018
(with strong efficiency amendments)



Voluntary Green/Stretch
Code: IgCC 2018



Denver's Path To Net Zero Energy – Commercial



Net Zero Energy Implementation Plan

Under Development fall 2019-
fall 2020



Energy Code Compliance

- IECC Specialist Hired
- Code Compliance Study - Fall 2019
- Implementation - 2020





Questions?