



# Advanced Building Energy Codes: Overlays and Alternatives

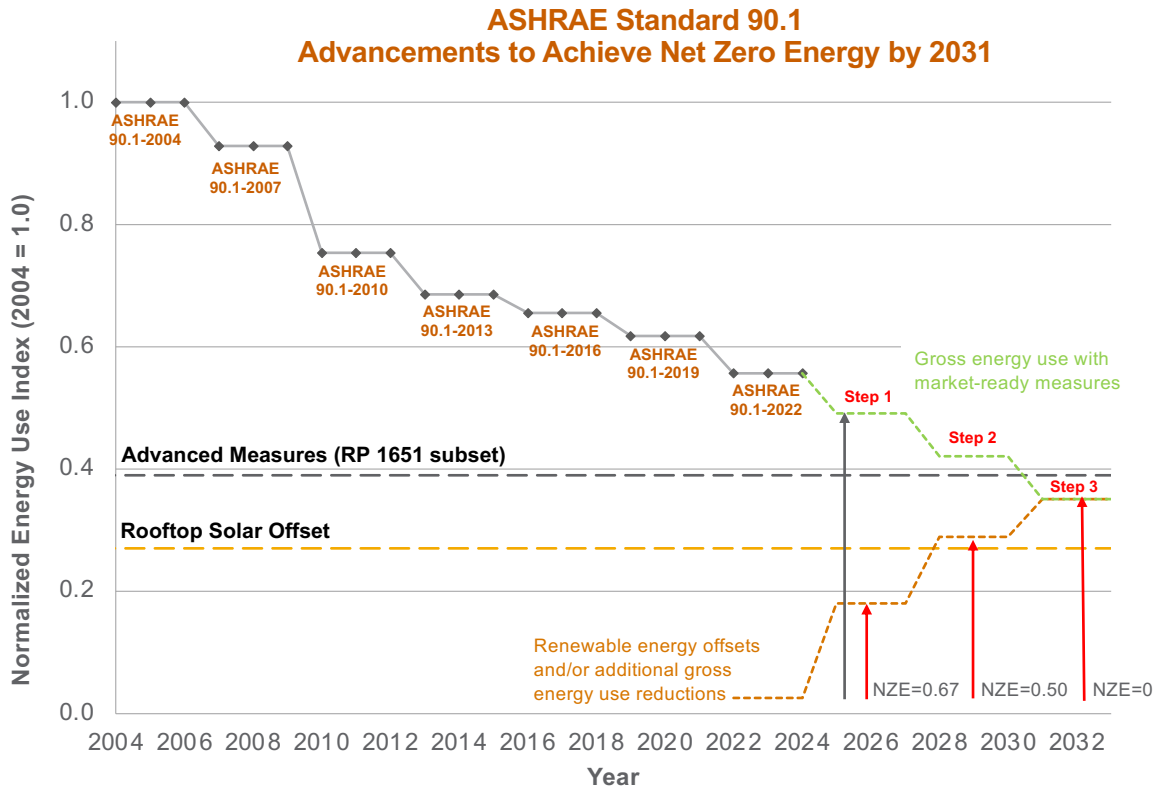
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PNNL is operated by Battelle for the U.S. Department of Energy



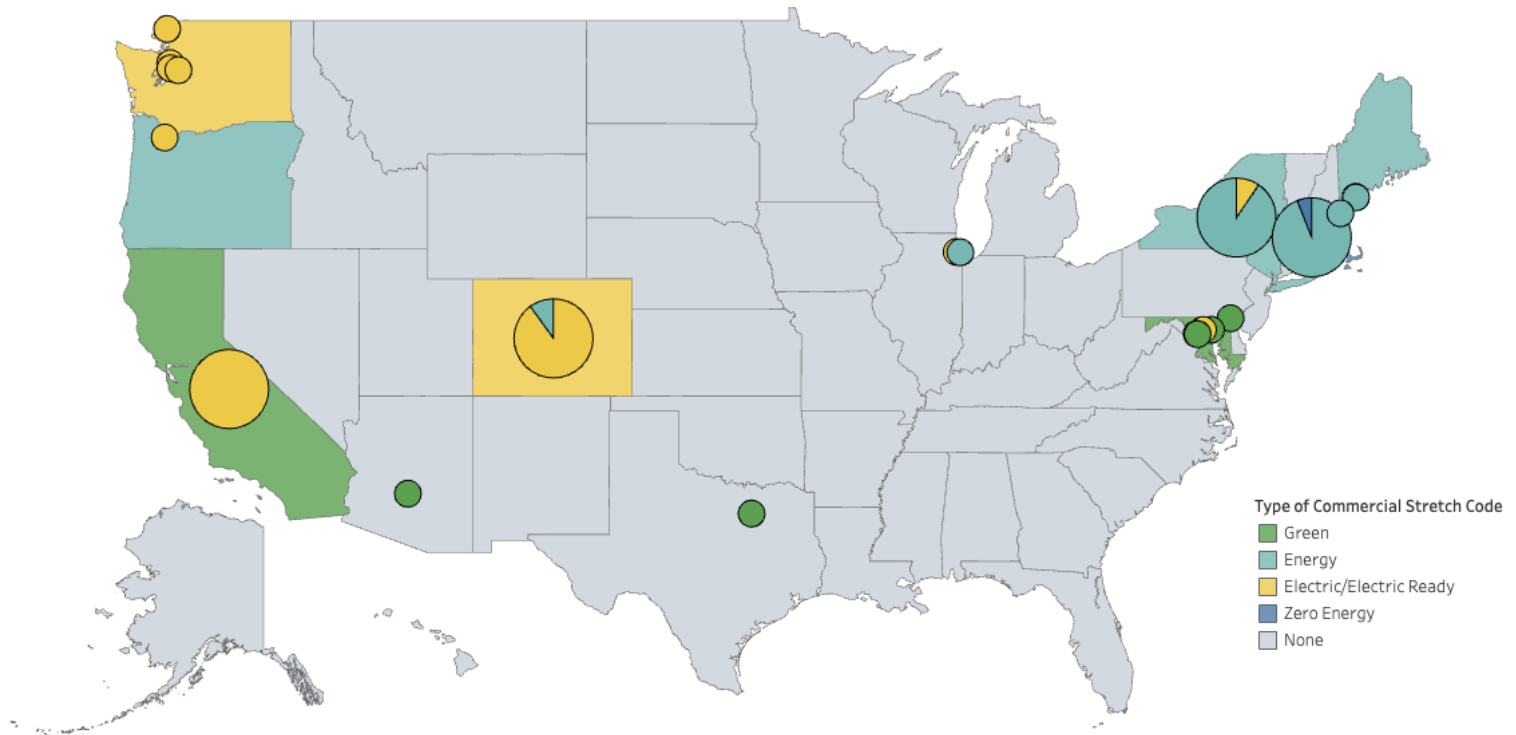
# Energy Code Trajectory to Zero Energy



Energy efficiency improves to the “maximum technical potential” level

The remaining load is offset by renewable energy to achieve zero

# Commercial State and Local Stretch Codes



## Stretch Code “Plug-Ins”



EV Charging



Simplified HVAC  
System Performance



Energy Credits



Electric Readiness



Grid-Interactive Efficient  
Buildings



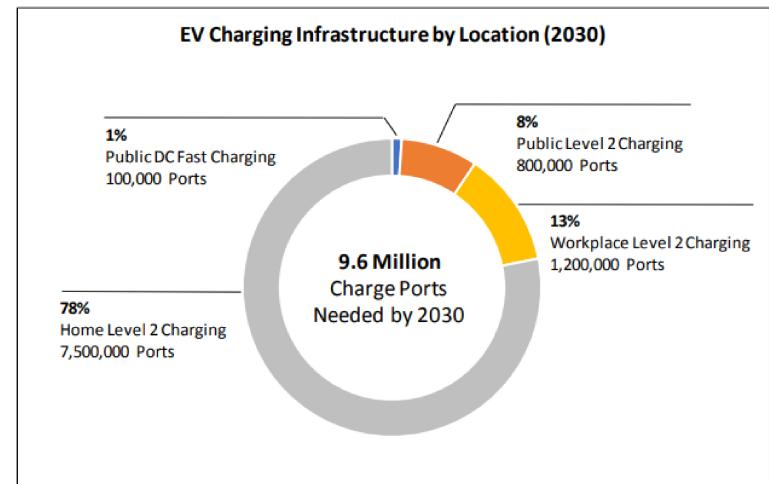
Net Zero Operational  
Energy



BPS Code Alignment

## Content of Plug-Ins

- Background/Overview of current landscape, market drivers and use cases for stretch code
- Economic analysis
- Strategies for incorporating measures into codes and policies
- Code language in ~~strikeout~~/underline format for use in local adoption
- Options for jurisdiction customization

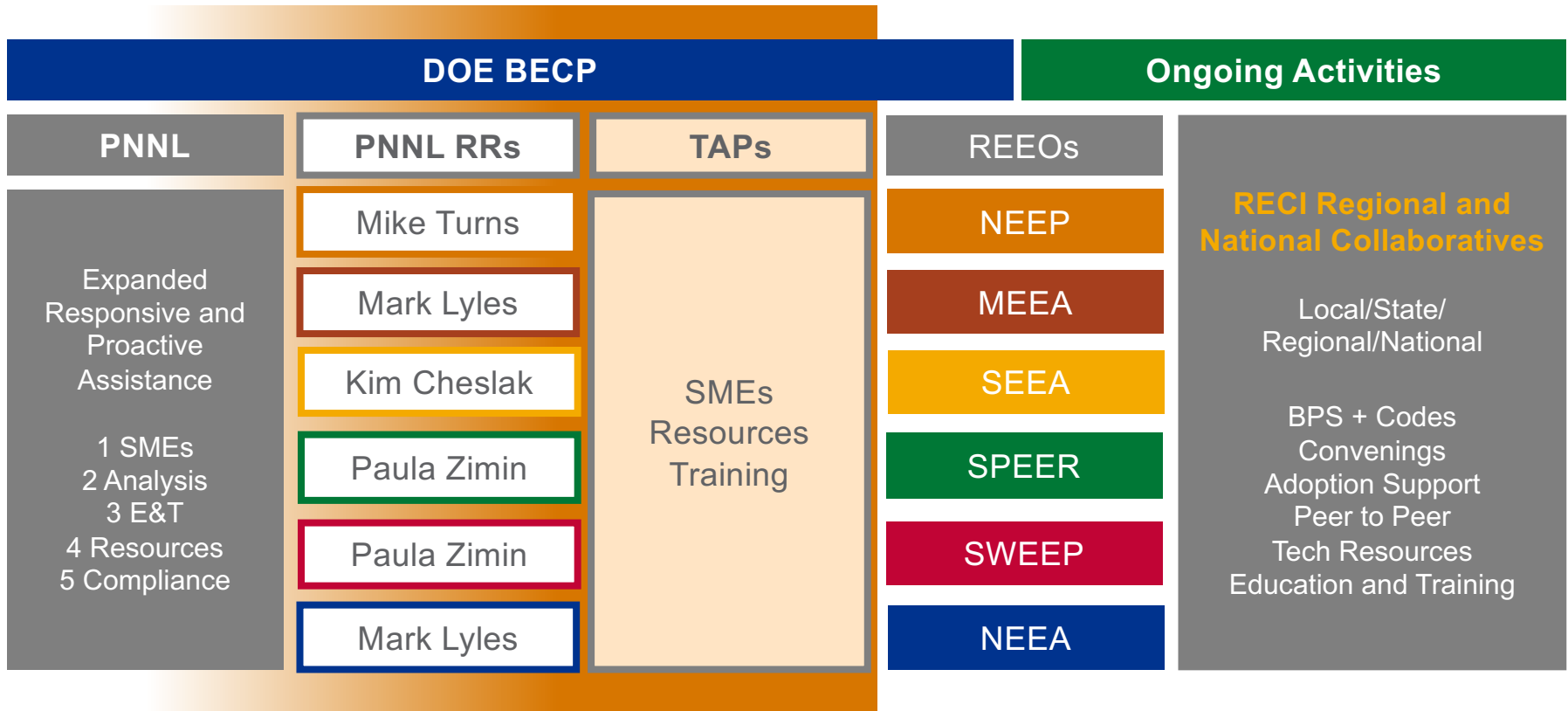


Source: Edison Electric Institute 2018

Figure 5. EV Charging Infrastructure in 2030 Based on the EEI Forecast



# Building Energy Codes TA Network





**Thank you**

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