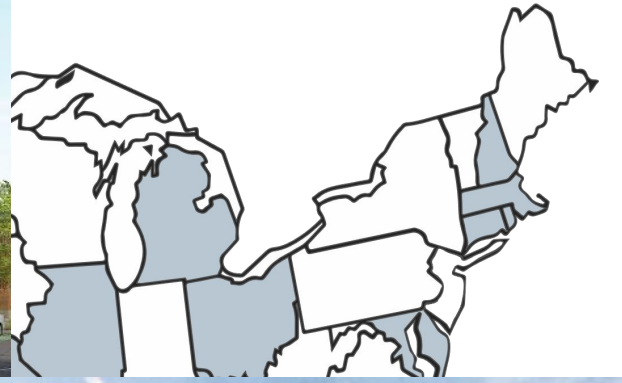
DESIGN+
BUILDING
PERFORMANCE
Preservation of Affordable Housing

ERE WE ARE



Connecticut	260 units
Washington, D.C.	94 units
Florida	1,356 units
Illinois	1,553 units
Kentucky	41 units
Massachusetts	3,118 u
Maryland	100 units
Michigan	579 units

KANSAS

2020-2024 CARBON REDUCTION PLAN

ZNE and ZNC buildings employ better insulated roofs and walls, better windows, and smaller, more efficient, fossil fuel-free heating, cooling, and ventilating systems to reduce energy loads.

In new construction, cost savings from smaller systems offset other additional costs, enabling ZNE and ZNC buildings to be delivered for little or no added cost.

Low energy buildings with renewable energy and energy storage are more resilient and reduce stress on the electric grid.

A ZNC building code would establish better standards for low-energy buildings and on-site renewable energy systems.

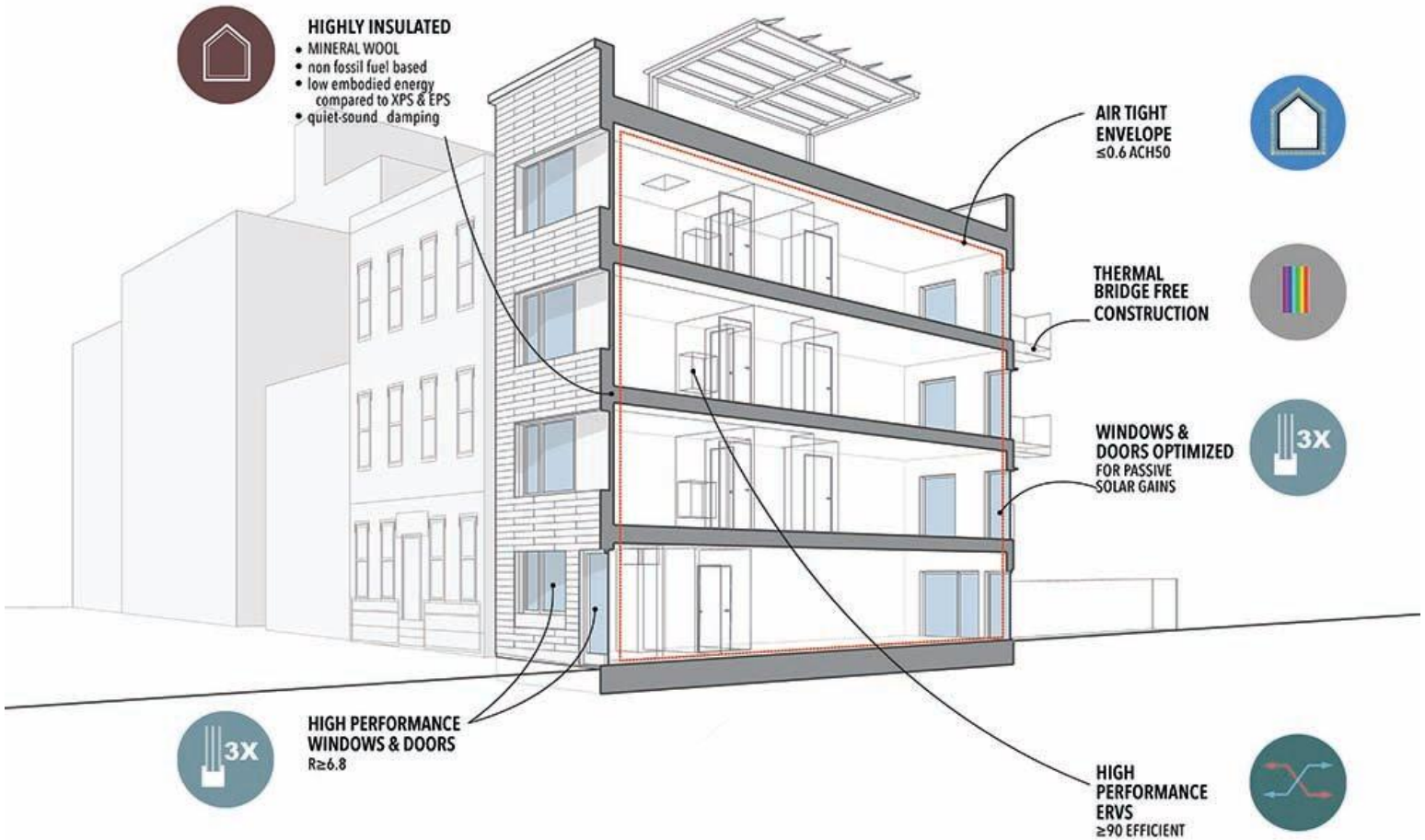
~~Passive~~ House

ZNC = Passive House + Renewable Energy + Reduced Embodied Carbon

Passive House

- Superinsulation and airtight construction provide **unmatched comfort** even in extreme weather conditions.
- Continuous mechanical ventilation of fresh filtered air provides **superb indoor air quality**.
- A comprehensive systems approach to modeling, design, and construction produces **extremely resilient buildings.**
- Passive building principles offer the **best path to Net Zero and Net Positive** buildings by minimizing the load that renewables are required to provide.
  (From Passive House Institute of the US)

Image from ZH Architects



ZNC = Passive House + Renewable Energy + Reduced Embodied Carbon

ZNC = Passive House + Renewable Energy + Reduced Embodied Carbon

DESIGN+ BUILDING PERFORMANCE
Preservation of Affordable Housing

Regarding Buildings and Grid Modernization, to enable a carbon free Boston, we must first establish codes and position the design and construction industry to pursue Passive House as the path to Zero Net Carbon.