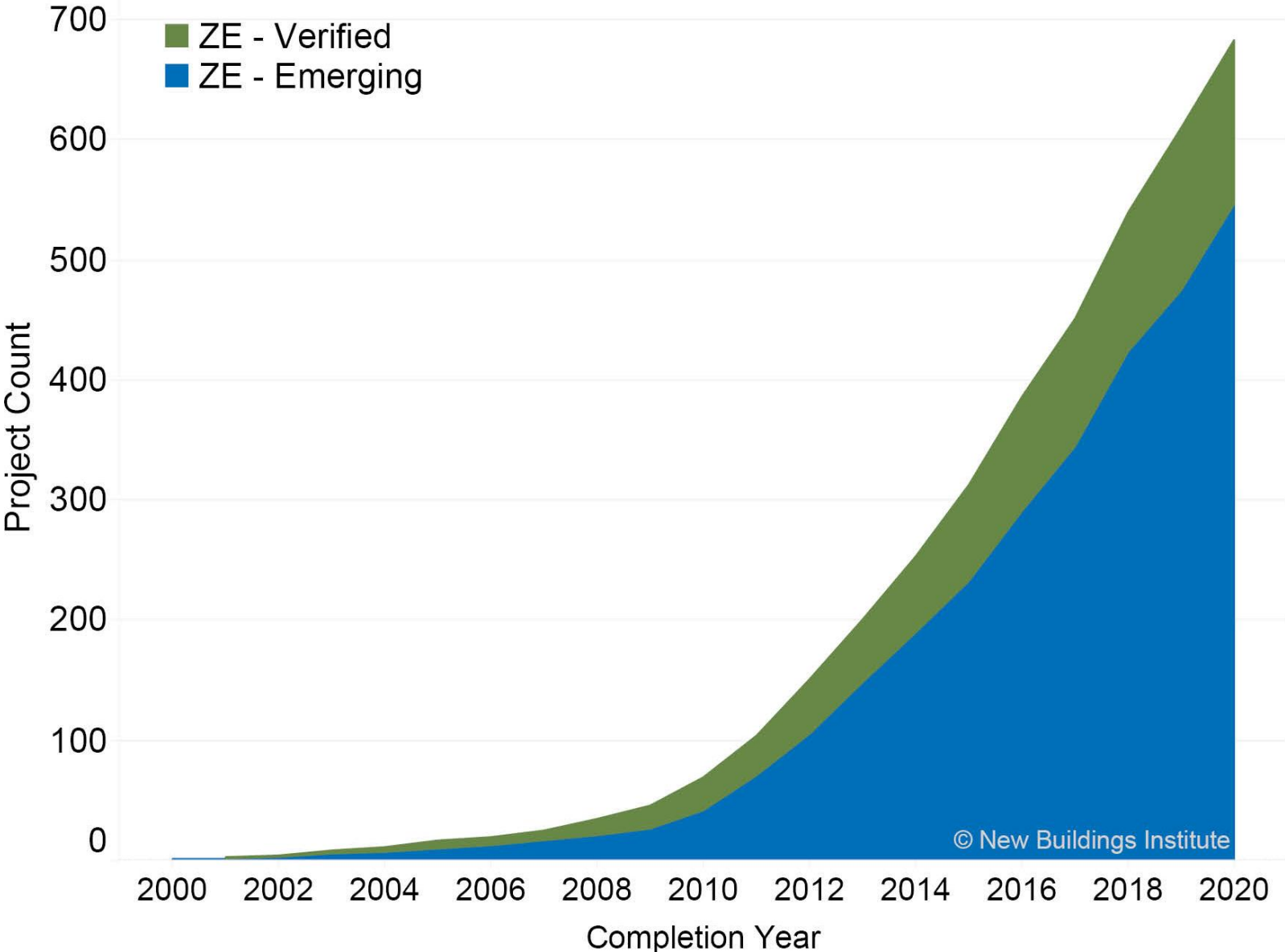


EXISTING BUILDING ELECTRIFICATION



Responsive buildings.
Responsive people.

NET ZERO BUILDINGS U.S.



NET ZERO BUILDINGS MASSACHUSETTS



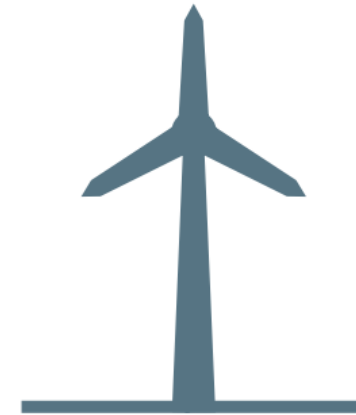
NET ZERO - 5.5 Million Sq Ft in MA



**ENERGY
EFFICIENCY**



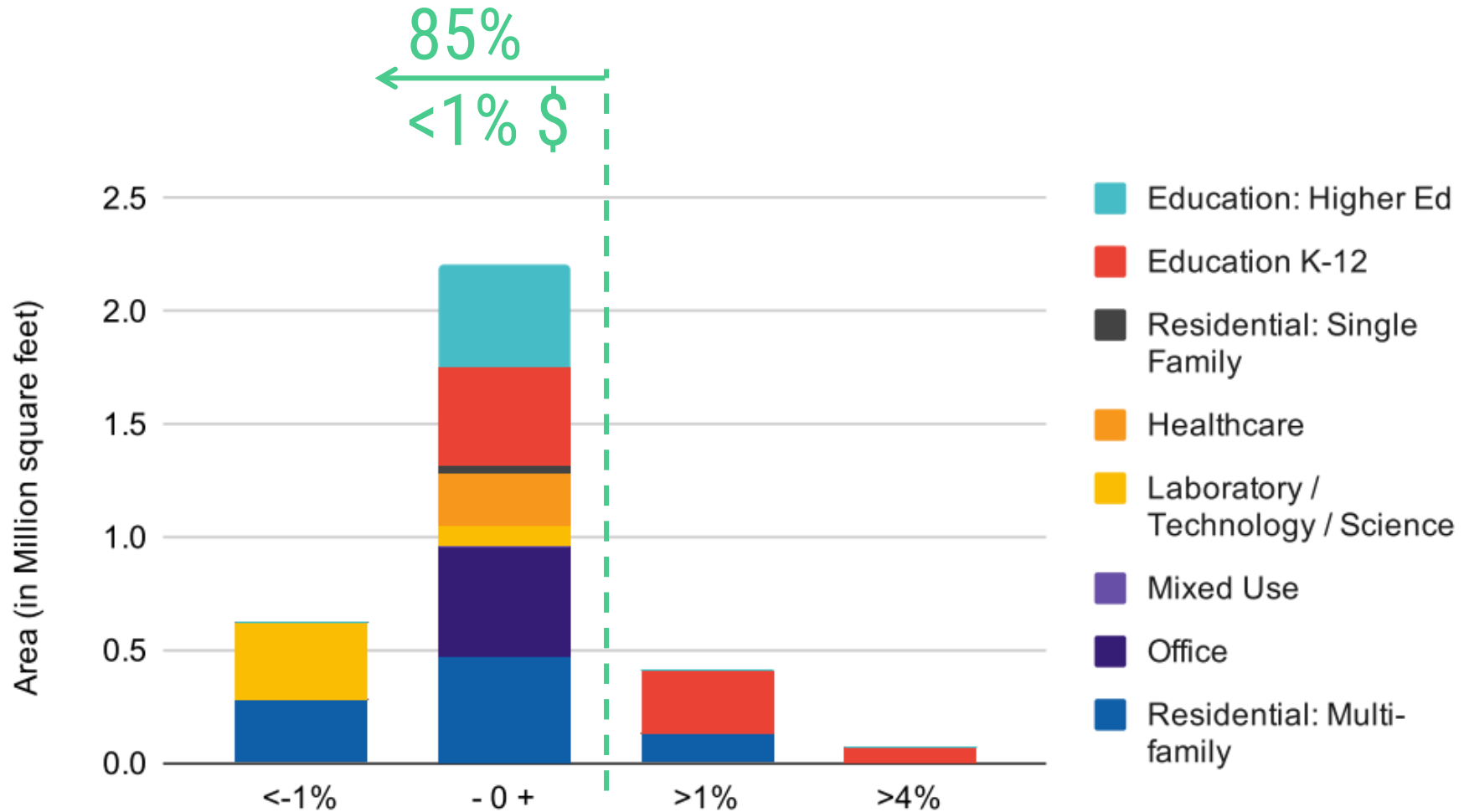
**MINIMIZE
FOSSIL FUEL**



**ON + OFF-SITE
RENEWABLE ENERGY**

NET ZERO READY - 7.2 Million Sq Ft in MA

CONSTRUCTION COST PREMIUM





CONSTRUCTION COST PREMIUM

<1%

<1%

<1%

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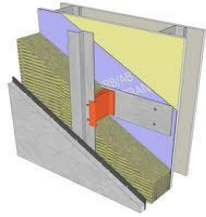
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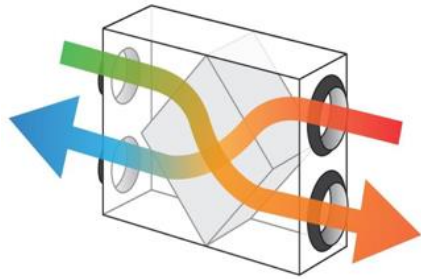
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BUILDING ELECTRIFICATION

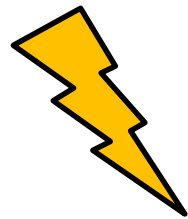


Envelope Improvements



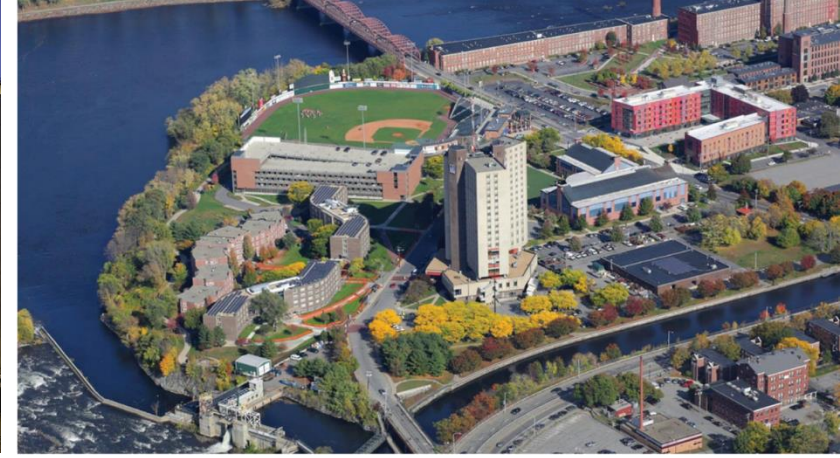
HVAC Upgrades

Electrification



EXISTING BUILDING ELECTRIFICATION

- Higher-Ed
- Historic
- Healthcare
- Labs/Pharma Manufacturing



HIGHER-ED

Wide Range of:

- Building Types
- Facility Conditions
- Existing Energy Performance

Key Considerations:

- Expansion Master Plan
- Level of Retrofit Viable
- Stand-Alone vs. Precinct vs. Central



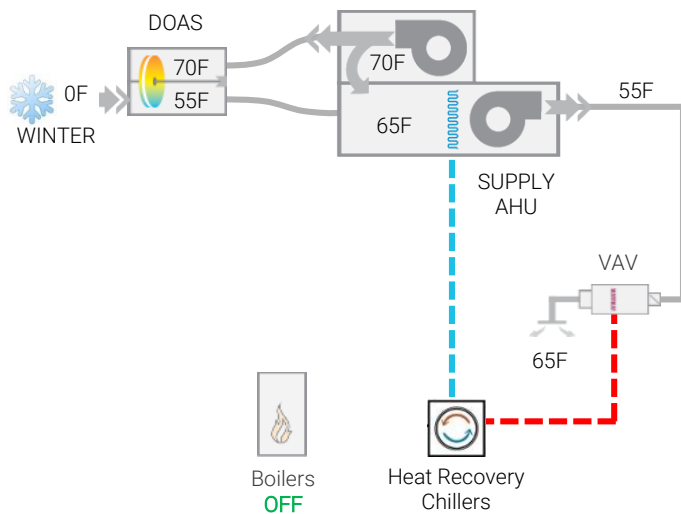
HISTORIC

- Historic Window Sash and Weatherstripping Replacement
- Insulate + Air-Seal
- Smart Vapor Barrier
- Energy Recover Ventilators >90% Ef
- Ground-Source vs. Air-Source



HEALTHCARE

- Exhaust/Relief Over-Recovery
- Heat Recovery Chillers
- Adiabatic Humidification
- Air-Source Indirect Domestic HW
- Electric Steam Sterilization
- 3rd Party District Energy



LABS / PHARMA

- Advanced Exhaust Heat Recovery
- Exhaust-Source Heat Pump
- Air-to-Water Heat Pumps
- Industrial High-Temp Heat Pumps

