



# Climate & Energy Actions and Initiatives Northeast & Mid-Atlantic Region

**By: Sue Coakley, Executive Director**

**Northeast Energy Efficiency Partnerships**

**To: EPRI Climate & Energy Research Seminar – May 14, 2020**

# Northeast Energy Efficiency Partnerships



*“Assist the Northeast and Mid-Atlantic region to reduce building sector energy consumption 3% per year and carbon emissions 40% by 2030 (relative to 2001)”*

## Mission

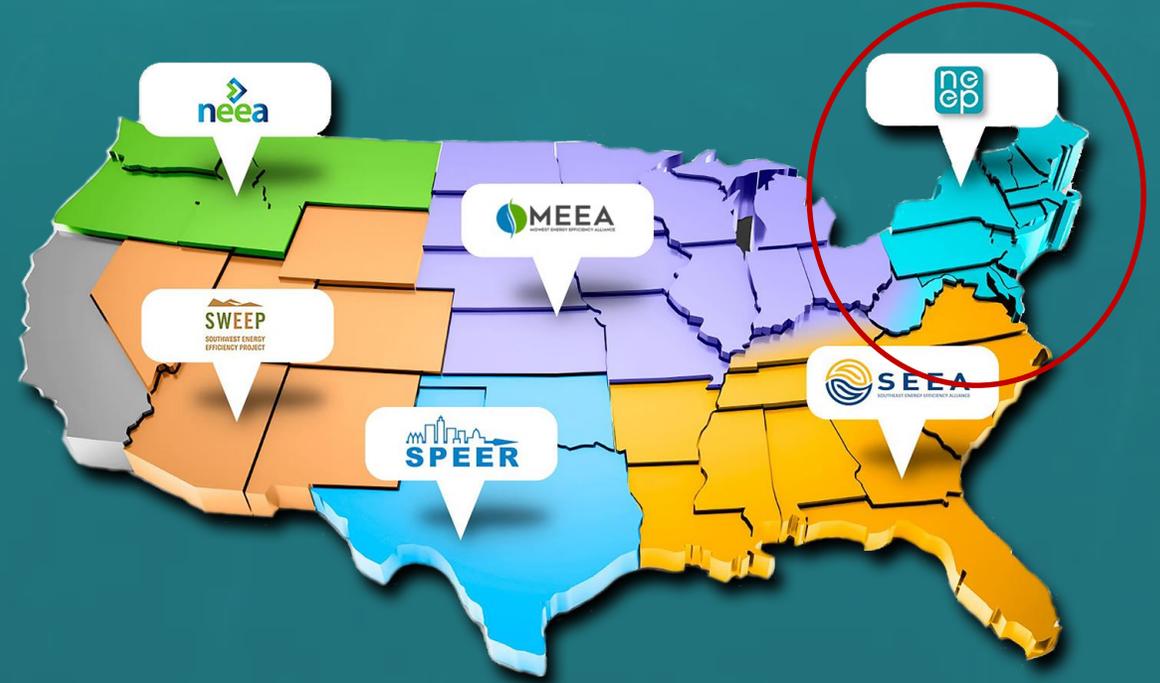
We seek to accelerate regional collaboration to promote advanced energy efficiency and related solutions in homes, buildings, industry, and communities.

## Vision

We envision the region's homes, buildings, and communities transformed into efficient, affordable, low-carbon, resilient places to live, work, and play.

## Approach

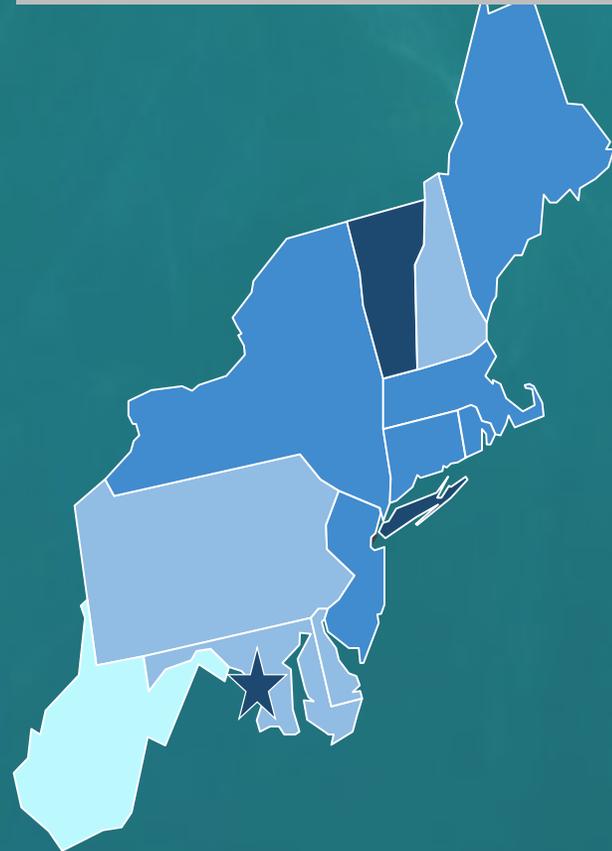
Drive market transformation regionally by fostering collaboration and innovation, developing tools, and disseminating knowledge



*One of six Regional Energy Efficiency Organizations (REEOs) funded in-part by U.S. DOE to support state and local efficiency policies and programs.*

# Northeast Region's Aggressive Economy-wide Carbon Emission Reduction Targets

## 2030 Carbon Reductions Goals



### Aggressive 2030 Goals

#### **State of Vermont**

By 2028 - 50%; By 2050 – 75%

#### **New York City**

By 2030 – 30% citywide from 1990 levels, large buildings 40% from 2005 levels

#### **Washington D.C.**

By 2032 50% below 2006 levels, ENERGY STAR building status required by 2026

#### **Burlington, VT**

Community: By 2025 - 10% from 2010 levels

Municipal: By 2025 – 20% from 2010 levels

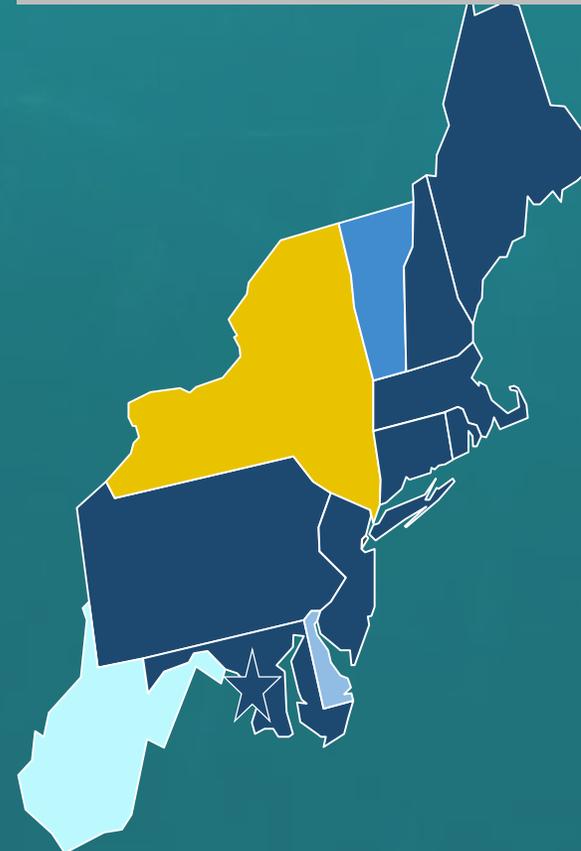
#### **Montpelier, VT**

By 2030 – 80%



0% <30% <45% 50%

## 2050 Carbon Reductions Goals



### Carbon Free Cities by 2050

- New York City
- Washington D.C.
- Boston, MA
- Cambridge, MA
- Somerville, MA

### 100% Renewable by 2050

For example:

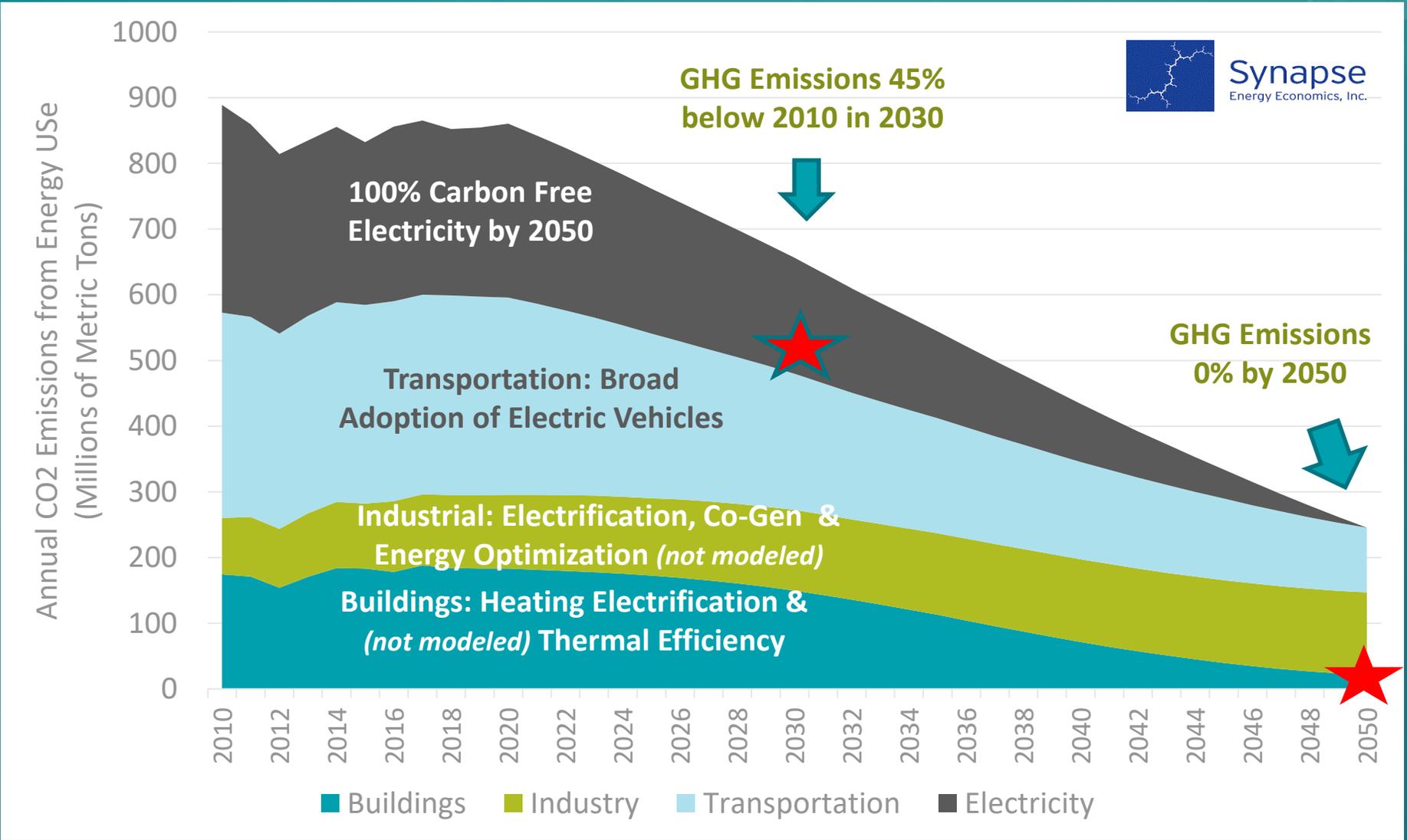
- Concord, NH
- Reading, PA
- New Brunswick, NJ

*And many more...*



0% <65% 75% 80% 100%

# The Big (Solvable) Climate & Energy Challenge for the Northeast & Mid-Atlantic Region



## SECTOR SPECIFIC INTEGRATED SOLUTIONS:

- ★ Deep Efficiency
- ★ Electrification
- ★ Renewables
- ★ Energy Storage
- ★ Grid Responsive Load

# State and Local Public Policies to Decarbonize

## Integrated, Aligned Public Policies

- ❖ Statewide CO<sub>2</sub> Goals & Mandates
- ❖ Utility Regulation & New Business Models
- ❖ Grid Modernization & Electric Market Reform
- ❖ Clean Energy Resource Acquisition
- ❖ Regional, Multi-State Collaboration

## Integrated Building Energy Solutions

- ❖ Efficiency and Demand-side Resource Programs
- ❖ Buildings as Grid Assets (Non-Wires Alternatives)
- ❖ Benchmarking and Labeling
- ❖ Building Codes & Appliance Standards
- ❖ Lead-by-Example: Low Load, Zero Energy Buildings
- ❖ Workforce Development



### Building Decarbonization Public Policy Framework

By Samantha Caputo, Senior Public Policy Associate

# State and Local Public Policies to Decarbonize

## Public Policy Linkages

- ❖ Climate Resiliency Planning
- ❖ Public Health and Safety
- ❖ Affordable Housing
- ❖ Transit Planning
- ❖ Energy & Environmental Justice
- ❖ Economic Development
- ❖ State Procurement & Financing
- ❖ Immigration – Climate Refugees



# COVID-19 Crisis - Decarbonization Policy & Program Impacts and Solutions



## Impacts

- Clean Energy Program Shutdown → Unmet Goals
- Economic Uncertainty → Reduced Investments
- Policy Distraction
- Reduced Customer Interest
- Business Disruption and Job Loss

## Solutions

- ✓ Program Extensions
- ✓ Virtual Services – Assessments, Audits
- ✓ COVID Safe Contractors Best Practices
- ✓ Consumer Education
- ✓ Business Support and Development
- ✓ Economic Recovery – investments & jobs in Climate Resilience, Building Decarbonization, EV infrastructure

## Building Decarbonization Policies:

- [Building Decarbonization Public Policy Framework](#)
- [Building Decarb Central](#)
- [Building Energy Codes, Benchmarking & Home Energy Labels](#)

## Air Source Heat Pumps:

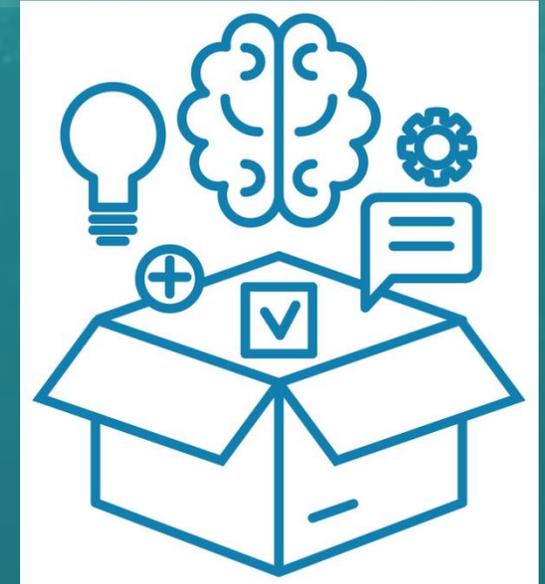
- [NEEP Cold Climate ASHP Market Transformation Initiative](#)
- [Air Source Heat Pump Buying Guide](#)
- [Variable Refrigerant Flow \(VRF\) Market Strategies Report – 2019](#)

## Smart Homes & Buildings

- [Grid-interactive Efficient Buildings: A Tri-Regional Status Report](#)
- [The Smart Energy Home: Driving Residential Building Decarbonization – 2019](#)
- [Strategic Energy Management \(SEM\)](#)

## Other NEEP Resources

- [Action Plan to Accelerate Strategic Electrification in the Northeast - 2018](#)



## For More Information:

[www.neep.org](http://www.neep.org)



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