



2020 PROGRAM PORTFOLIO

- VISION:** We envision the region's homes, buildings, and communities transformed into efficient, affordable, low-carbon, resilient places to live, work, and play.
- MISSION:** Accelerate regional collaboration to promote advanced energy efficiency and related solutions in homes, buildings, industry, and communities.
- GOAL:** Assist the Northeast and Mid-Atlantic region to reduce building sector energy consumption three percent per year and carbon emissions 40 percent.

Most Northeast states have aggressive long-term energy and carbon reduction goals in line with the Intergovernmental Panel on Climate Change (IPCC) recommendations of 45 percent greenhouse gas emission reductions below 2010 levels by 2030 and net zero by 2050. To meet these steep targets, it will take more than business as usual. We need to accelerate progress on existing efforts, think creatively, leverage each other's work where possible, and align efforts to catalyze regional scale market transformation to dramatically reduce building sector carbon emissions.

The Northeast region is well positioned to take on this challenge. It consists of a rich nucleus of research, business development, policy leadership, environmental stewardship, cutting-edge clean energy policy, and advocacy for a sustainable equitable future that is driving innovations, exciting examples, and new business opportunities for energy efficient, low-carbon energy solutions.

NEEP's 2020 Program Portfolio responds to this by offering nine initiatives focused on engaging leadership to overcome market barriers in the regional transformation to efficient, low-carbon home and building energy use. These projects are a component of an overall three-part strategy focused on:



Advanced Efficiency & Decarbonization Leadership Network: Learning and best practice sharing among thought leaders on policy, programs, and market-based solutions to drive progress towards an energy-efficient, resilient, and affordable low-carbon economy. Includes state and local progress dashboards and exemplars to highlight successes and opportunities for collaboration.



Efficient and Resilient Buildings and Communities: Rapidly scaling up market momentum for low carbon solutions, and supporting the expansion and success of community initiatives for resilient, healthy, efficient, low-carbon buildings and communities to achieve major energy savings.



Smart, Efficient Low Carbon Building Energy Solutions: Engaging and collaborating with stakeholders to catalyze market transformation for advanced efficiency, smart strategic electrification technologies, and other building decarbonization solutions through public policy, research, collaboration, programs, and partnerships to leverage regional-scale impacts.



Advanced Efficiency & Decarbonization Leadership Network

1. **NEEP Regional Summit and Building Decarbonization Leadership Forum:** Engages a diverse cross-section of leaders from business, government, academia, community, and advocacy in an invited quarterly roundtable and regional annual public summit to inspire, learn, and catalyze regional-scale efforts to accelerate building decarbonization through advanced energy efficiency for smart homes and building.
2. **State & Local Public Policy Tracking, Analysis, and Technical Assistance:** Advances new approaches and information to forecast, assess, evaluate measure and verify the impact and value of efficient, demand-side resources, programs, and policies to advance building decarbonization, electrification, and buildings as grid assets. It includes best practice guidance as well as regional tracking and analyses of state and local policies and program impacts, reports, and technical assistance.



Efficient and Resilient Buildings and Communities

1. **Efficient, Resilient Community Pathways and Resources:** Best practice guidance, peer information exchange, and technical assistance to support the rapid growth of community initiatives in Northeast states to advance resilient, energy efficient, low-carbon public buildings and communities.
2. **Building Energy Codes and Benchmarking:** Best practice resources and technical assistance to states and communities to save energy, reduce costs, decrease emissions, improve resiliency, and strengthen workforce development through building energy code adoption, enforcement, compliance, and benchmarking.
3. **Home Energy Labeling Information eXchange (HELIX) and Residential Labeling:** Database of home energy scores, ratings, labels, and benchmarking for use in automated residential real estate listings and in policy and program evaluation and implementation. Includes the education of real estate professionals on the value proposition of home energy information that distinguishes energy efficient, clean energy homes.



Smart, Efficient Low Carbon Building Energy Solutions

1. **Air Source Heat Pumps:** Accelerates market adoption of high-efficiency residential and commercial air source heat pumps, smart controls, and services with thermal efficiency improvements that provide deep energy savings and carbon reduction while enabling real-time load management to support efficient, reliable grid operation.
2. **Smart Energy Homes and Buildings:** Research, best practices peer exchange, and technical guidance and resources to support the advancement of smart, energy efficient homes and buildings as flexible grid assets.
3. **Strategic Energy Management:** Regional research, analysis, technical guidance, pilots, and best practices peer exchange to accelerate adoption of high efficiency technologies, practices, and business models that provide integrated commercial and industrial sector solutions that increase efficiency and productivity, reduce costs and carbon emissions, and respond to grid needs.
4. **Federal and State Appliance Efficiency Standards:** Informs, tracks, and engages regional learning, dialogue, and provides technical assistance to support minimum product efficiency standards that lock in long-term energy and carbon emission savings.

NEEP's Approach

Engage and Empower Stakeholders: NEEP forges partnerships and brings stakeholders together to develop, advance, accelerate, and integrate advanced energy efficiency solutions with coordinated efforts, regional learning, and resource leveraging.

Advance Regional Market Transformation Opportunities: NEEP engages support for, recommends, tracks, and reports progress of regional market transformation initiatives that drive innovative advanced energy efficiency opportunities.

Independent Analysis and Technical Expertise: NEEP conducts independent analysis and serves as a technical expert on energy efficiency potential, best practices, impacts, evaluation, and integration with other demand side resources.

Advance Knowledge and Best Practices: NEEP develops and distributes regional best practice information resources, and serves as a regional peer exchange network to advance next generation energy efficiency.

NEEP's 2020 Products and Services

Events, Stakeholder Engagement, Learning Exchange

Regional Market Transformation Strategies

Research, Progress Tracking, Analysis, Reports, Case Studies

Best Practice Guidelines, Tools, Technical Assistance and Resource Centers

NEEP's 2020 Tentative Event Schedule

Event	Location	Month
High Performing Schools Tour	Rhode Island	April
EM&V Workshop	Connecticut	June
NEEP Annual Summit	Connecticut	June
SEM Workshop	Massachusetts/Rhode Island	October
ASHP & Smart Homes Workshop	New York	November