



# Retrofit Models

Addressing emissions from the existing buildings stock remains one of the greatest challenges, and presents one of the greatest opportunities, to meeting 2050 climate goals. Completing retrofits of existing buildings at scale can be complex, disruptive, and expensive, and therefore requires a suite of solutions to make progress. These solutions must address, and positively impact, housing affordability, indoor health, occupant comfort, and resiliency in order to achieve an equitable and clean energy future. Replicable technical solutions, program and business models, financing options, and a trained workforce must be scaled rapidly to successfully accelerate building retrofits.

NEEP engages key stakeholders, including representatives from state and local government, utilities, contractors, trade associations, and others to develop replicable retrofit programs across the region. Through this work, NEEP identifies key barriers to program adoption, and provides analysis, research, tools, and technical assistance to deploy successful solutions. In 2023, NEEP will draw on existing initiatives to help states and communities develop and implement residential and commercial whole-building retrofit programs, evolve energy efficiency programs to achieve deeper energy savings, and create a robust retrofit workforce.

## NEEP's 2023 Outcomes:

- Five states (Maine, Maryland, New Jersey, Rhode Island, Vermont) take regulatory or legislative steps to implement statewide programs that expand access to whole-building deep energy efficiency retrofits in underserved communities.
- Two states (Connecticut, New York) standardize definitions for weatherization.
- Three state or municipal whole-building retrofit programs (Connecticut, New Jersey, New York) include training opportunities focused on expanding access to workforce opportunities for historically marginalized communities.
- Three energy efficiency program implementers (New Jersey, New York, Rhode Island) modify programs to expand delivery of deep energy efficiency retrofits over direct install measures.
- Three energy efficiency programs (Massachusetts, New York, Vermont) increase the number of measures included in their whole-building retrofit programs

## NEEP's 2023 Activities:

NEEP works with partners to determine high priority work throughout the year. In 2023, this includes:

**Stakeholder Engagement and Collaboration:** *NEEP connects key market actors including government staff, utility programs, and workforce representatives to identify barriers, develop replicable solutions, build a diverse workforce, and highlight braided funding opportunities to advance successful and equitable whole-building retrofit programs.*

- Working Groups: NEEP convenes two regional working groups (residential and commercial) to identify and discuss components, barriers, and best practices of implementing retrofit programs.
- TEP: NEEP facilitates a Total Energy Pathways Workforce Development Advisory Committee to develop and maintain an online training resource center.
- Collaboration: NEEP monitors and participates in national and regional groups, and supports efforts of other conveners (e.g. NYSERDA's Residential Market Advisory Group, MA Decarbonization Pilot Advisory Group, NASEO, BBI, BPA, RMI, Regional Energy Efficiency Organizations, Partnership for Advanced Window Solutions

(PAWS) Advisory Group, U.S. DOE) to advance regional interests and report back to state and other partners on activities, information, and opportunities.

**Tracking, Analysis, Tools, and Reports:** *NEEP will track program successes, conduct research, and develop materials that provide actionable guidance to help decision makers implement whole-building retrofit programs. Guidance will focus on embedding equity in program design, developing a proficient workforce, providing financing solutions, and sharing key technologies that evolve retrofit programs.*

- White Papers: NEEP researches and reports on scalable and innovative advances in the retro-fit space and on legislative and regulatory pathways to implement deep energy efficiency retrofits.
- Web-based Resource: NEEP develops and maintains the [Regional Retrofit Matrix](#).
- TEP: NEEP develops and maintains several website resources for the Total Energy Pathways project, including the [Total Energy Pathways \(TEP\) Certificate online resource center](#) and the [Total Energy Pathways webpage](#).
- Fact Sheet: NEEP researches and reports on the non-energy benefits, specifically equity, of advanced window solutions.

**Technical Assistance:** *NEEP provides direct guidance to program administrators, states, and communities to inform the development and implementation of whole-building programs.*

- Technical Assistance: NEEP provides presentations, briefings, research, and reports on the barriers and successful pathway for implementing retrofit solutions.
- Public Comments: NEEP responds to requests to provide public comments that assist states and communities with understanding how to design successful retrofit programs.

**Thought Leadership:** *NEEP partners with governments and synergistic organizations to drive an influential regional dialogue to promote key messages on whole-building retrofit programs, workforce development, and financing.*

- Exemplars: NEEP develops three exemplars that highlight existing whole-building programs to share lessons learned from program implementers on topics such as equity considerations, financing models, and more.
- Whole-Building Blog Series: NEEP produces a series of blogs that highlights successful, and replicable, programs and pathways.
- Webinar Series: NEEP hosts a webinar series that will feature advancement in deep energy efficiency retrofits for both residential and commercial application.
- Events: NEEP will identify opportunities to promote innovative retrofit policies and programs and champion solutions at events including NEEP-run and industry-hosted summits, workshops, and other convenings.