



2018 Strategy & Program	NEEP Products, Services & Technical Assistance
A. Leadership Recognition Progress Tracking	
1. Northeast Advanced Efficiency Leadership Summit	1. Stakeholder Engagement: A Leadership Summit of regional carbon reduction stakeholders including members of four NEEP Topical Leadership Forums to report on progress and explore cross-cutting issues to accelerate regional energy efficiency and carbon reduction strategies (To be held in the Fall with follow-up summary report.)
2. Advanced Evaluation, Measurement and Verification (EM&V) Leadership Forum	1. Stakeholder Engagement: Four Leadership Forum meetings of invited participants. (At least one meeting to be at the in-person including the public Northeast Advanced Efficiency Leadership Summit)
3. Advanced EM&V Solutions Includes: NEEP EM&V Tracking, Analysis, Reports and Outreach US DOE M&V 2.0 Grant Funded Activities, and Mid-Atlantic Technical Resource Manual projects.	1. Stakeholder Engagement/Public Meetings/Workshops/Updates: <ol style="list-style-type: none"> Facilitate regional Collaboration through CT DEEP hosted US DOE M&V 2.0 Grant including LBNL, Eversource, United Illuminating, State Partners (RI, MA, NY, VT, DC, PA) – Quarterly Meetings Mid-Atlantic TRM Subcommittee Workshops : <ul style="list-style-type: none"> o M&V 2.0 – One Regional Workshop and a Topical Webinar o Advanced EM&V - Public workshop and webinar (Topics TBD) Quarterly Newsletters 2. Tracking, Research and Analysis: <ol style="list-style-type: none"> Track EM&V developments re: integration of energy efficiency as a grid resource , and the use of non-energy impacts in cost-effectiveness Track the use and experience of advanced data analytics and collection tools (“M&V 2.0”) to support program evaluation, reporting, program and project optimization, and related topics. Research best practice guidance for use of M&V 2.0 in program evaluation 3. Tools, Guideline sand Resources available at NEEP.org: <ol style="list-style-type: none"> Update/maintain online list of software vendors and tools Update/maintain online repository of evaluation reports 4. Technical Assistance <ol style="list-style-type: none"> Participate in ongoing regional/national protocol and guidance development Customized Technical Assistance and Coordinated Multi-State Research (by request) 5. Studies/Reports available at NEEP.org: <ol style="list-style-type: none"> Mid-Atlantic TRM v 8.0 (<i>subject to sufficient funding from participating states</i>) Annual Brief on M&V 2.0 Industry trends Annual Brief on current EM&V issues and trends Library of 50 jointly funded studies by NEEP’s Regional EM&V Forum 6. National/Regional Collaboration: <ol style="list-style-type: none"> Showcase regional efforts through conference presentations (IEPEC, AESP, HPC, ACEEE and others) Track and contribute to EM&V national discussions including: IEPEC Board, National Standard Practice Manual Steering Committee, NREL Tech to Utilities Working Group, LBNL M&V2.0 Stakeholder Group, Rocky Mountain Institute, US DOE SEE Action Network, Consortium for Energy Efficiency



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A. Leadership Recognition Progress Tracking	
<p>4. Regional State & Local Public Policy and Program Trends and Progress Tracking, Analysis and Exemplars</p> <p>Includes: NEEP Policy & Program Tracking, Analysis, Reports and Outreach Regional Energy Efficiency Database (REED), and US DOE Sponsored Research</p>	<p>1. Stakeholder Engagement/Public Meetings/Workshops/Updates:</p> <ul style="list-style-type: none"> a. 2018 Advanced Efficiency Progress Report Webinar b. NEEP Allies Weekly Tracking Updates c. Allies Bi-Monthly Tracking and Analysis Webinar & Reports d. Bi-monthly EE Tracker via NEEP Notes and Blog postings e. Periodic and hosted Topical Blog posts. <p>2. Tracking, Research, Analysis and Reports available at NEEP.org:</p> <ul style="list-style-type: none"> a. REED Database - public searchable database of reported efficiency program savings and state EM&V report state EM&V reports documentation – updated with 2017 data from New England, New York, and mid-Atlantic States (DE, DC, MD) b. US DOE-sponsored Research Report documenting utility incentives and measure expenditures and cost-effectiveness data to enable further in-region analyses and comparisons c. Four REED Renderings—Regional Analyses of Reported Costs & Saving d. Annual Regional Energy Efficiency Snapshot Report and blog <p>3. Tools, Guidelines and Technical Assistance at NEEP.org</p> <ul style="list-style-type: none"> a. State-by-State Efficiency Policy Tracking Resource Center b. Customized Technical Assistance and Coordinated Multi-State Research (by request)



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B. Resilient, High Performance Buildings and Communities	
<p>1. Resilient, High Performance Communities Leadership Forum</p>	<p>1. Stakeholder Engagement: Four Leadership Forum meetings of invited participants. (At least one meeting to be the in-person including the public Northeast Advanced Efficiency Leadership Summit)</p>
<p>2. High Performance Community Pathways and Resources</p> <p>Includes:</p> <p>Resilient High Performance Communities (HPC)</p> <p>High Performance Schools (HPS)</p>	<p>1. Stakeholder Engagement/Public Meetings/Workshops/Updates:</p> <ul style="list-style-type: none"> a. Regional High Performance Public Buildings & Communities Peer-Exchange Working Group (quarterly meetings/webinars/one in person meeting and materials) b. RI and NH High Performance Schools Working Groups (State Partnership Agreements) c. Northeast Collaborative for High Performance Schools Advisory Committee <p>2. Public Meetings/Tours & Case Studies:</p> <ul style="list-style-type: none"> a. High Performance Community Exemplars and Tours b. High Performance Schools - Half-Day Workshop (State-Specific Upon Request) c. High Performance Schools – two public tours in conjunction with Healthy Schools Week in April <p>3. Tools and Guidelines available at NEEP.org:</p> <ul style="list-style-type: none"> a. Maintain and make available existing best practice tools and resources: <ul style="list-style-type: none"> • Community Action Planning for Energy Efficiency (CAPEE) - develops customized action plans for small, medium and rural communities • Collaborative for High Performance Schools (NE-CHPS) Guidelines • Public Building Operation and Maintenance Guide • Building Energy Data Access, Use and Management Guidelines • Strategies to Advance Zero Energy Public Buildings <p>4. Customized Technical Assistance (by request)</p> <ul style="list-style-type: none"> a. Facilitate, advise, or assist state or local working groups to advance best practices for high performance public buildings and communities (e.g., RI, NH, MA State Working Groups) with customized tracking dashboards b. Assist state-based working groups to develop state-specific High Performance School Visions and Pathways c. Advise Local Community Efficiency Initiatives (<i>limited availability</i>) <p>5. National/Regional Collaboration: Monitor, communicate, contribute to and coordinate with organizations and initiatives such as: New Hampshire Local Energy Solutions, Zero Energy Schools Acceleration, MA and RI Zero Energy Council, National CHPS, ENERGY STAR, The Better Buildings Workforce Initiative, US DOE, NREL, New Buildings Institute, Sustainable Connecticut, City Energy Project, Institute for Sustainable Communities, and other stakeholders.</p>



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B. Resilient, High Performance Buildings and Communities	
<p>3. Building Energy Codes and Benchmarking</p>	<p>1. Stakeholder Engagement/Public Meetings/Workshops/Updates:</p> <ul style="list-style-type: none"> a. Regional Building Codes Leadership Network (quarterly meetings/webinars and materials) b. Webinars (4): “Building Energy Codes for a Carbon Constrained Era” Report c. Presentations: Building Energy Benchmarking at (2) events <p>2. Track, Research and Analysis:</p> <ul style="list-style-type: none"> a. Residential and Commercial Benchmarking Tracking w/ Web-Based List b. Stretch codes-Research the barriers to state / jurisdictional adoption of stretch codes c. Develop stretch code fact sheets and matrix available at NEEP.org <p>3. Technical Assistance, Tools and Guidelines available at NEEP.org:</p> <ul style="list-style-type: none"> a. Prepare exemplar on energy savings attribute to building energy code support activities b. Update Building Energy Code Compliance Toolkit c. Maintain Energy Code Dashboard to Track Compliance Rates in Region d. Update Commercial Benchmarking Dashboard and add Multifamily e. Provide Commercial Benchmarking Technical Assistance for States f. Create commercial Benchmarking Exemplar for one community (TBD) g. Maintain NEEP Residential Benchmarking Green Real Estate Page and Update the Real Estate Professionals’ Home Efficiency Attributes Checklist <p>4. Studies/ Reports available at NEEP.org:</p> <ul style="list-style-type: none"> a. NEEP Report: “Building Energy Codes for a Carbon Constrained Era” b. NEEP Report Update: “Construction Codes in the Northeast; Myths and Realities of Energy Code Adoptions and the Economic Effects” c. NEEP Public Report to CT DEEP: Connecticut Energy Codes Best Practice Study: Home Inspection and Reporting <p>5. National and Regional Collaboration:</p> <ul style="list-style-type: none"> a. National coordination with Regional Energy Efficiency Organizations (REEOs), National Labs and US DOE (e.g., Home Energy Information Accelerator) b. Monitor, communicate, present and coordinate with organizations such as: Northeast Home Energy Rating System (HERS) Alliance, ASHRAE, US Green Building Council, Boston Society of Architects, New Buildings Institute, state-specific energy code working groups, and other stakeholders.
<p>4. Home Energy Labeling Information Exchange (HELIX)</p>	<p>1. Stakeholder Engagement/Public Meetings/Workshops/Updates:</p> <ul style="list-style-type: none"> a. Regional HELIX Advisory Committee for VT Department of Public Service hosted US DOE HELIX Grant including State Partners (RI, MA, CT, VT, NH), Energy Futures Group, Eversource, National Grid, Efficiency Vermont, United Illuminating, Unitil, Liberty Utilities, VT Law School. LBNL, New England Real Estate Network (NEREN MLS), State Realtor Associations - CT, VT, RI, NH, ME and MA – (quarterly meetings, periodic updates) b. Annual HELIX Stakeholder Summit (in-person) <p>2. Track, Research and Analysis:</p>



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B. Resilient, High Performance Buildings and Communities	
	<p>a. Track and report HELIX impacts and trends, and refine materials to increase impact at regional scale</p> <p>3. Technical Assistance, Tools, Guidelines and Training</p> <p>a. Beta test and launch the HELIX database</p> <p>b. Provide state specific technical assistance to deploy HELIX</p> <p>c. Implement home energy rating/scores outreach and education for real estate professionals</p> <p>4. National and Regional Collaboration:</p> <p>a. Present HELIX at national and regional meetings and conferences</p> <p>b. Monitor, communicate, contribute to and coordinate with organizations such as: US DOE Home Energy Information Accelerator, NASEO, RESNET, the Appraisal Institute, Real Estate Standards Organization, Home Performance Coalition, E4theFuture, Build it Green, Earth Advantage, Elevate Energy, the Energy Foundation and others.</p> <p>c. Outreach to:</p> <ul style="list-style-type: none">• State and local government, national labs, efficiency programs, and relevant NGOs• Lenders, appraisers and real estate professionals and associations <p>5. Strategic Planning:</p> <p>a. Create a HELIX Business Model with a short-and long-term business/ownership plan and finalize operational policies to operate HELIX on a regional scale</p> <p>b. Seek funding and partnerships to expand HELIX to address home solar and energy storage</p>



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C. Integrated Advanced Efficiency Solutions	
1. Advanced Integrated Solutions Leadership Forum	Stakeholder Engagement: Four Leadership Forum meetings of invited participants. (At least one meeting to be the in-person including the public Northeast Advanced Efficiency Leadership Summit)
2. Cold Climate Air Source Heat Pumps (ccASHP) and Smart Energy Homes Includes: ccASHP Home Energy Management Systems Smart Energy Homes	<ol style="list-style-type: none"> 1. Stakeholder Engagement/Public Meetings/Workshops/Updates: <ol style="list-style-type: none"> a. Regional ccASHP (residential) Working Group (quarterly meetings by webinar will be conducted in conjunction with VRF Working Group meetings) b. Smart Energy Homes Working Group (quarterly meetings by webinar) c. ccASHP in-person workshop - will include commercial Variable Refrigerant T d. Topical Webinar: Smart Energy Homes and Strategic Electrification e. Periodic Project Updates, Blog Postings and conference presentations 2. Track, Research and Analysis: <ol style="list-style-type: none"> a. Research and publish updates to NEEPS ccASHP technical specification to respond to the ccASHP efficiency-rating testing procedure developed by CSA 3. Technical Assistance, Tools and Guidelines available at NEEP.org: <ol style="list-style-type: none"> a. Maintain up-to-date NEEP’s ccASHP Products List b. Manage and update NEEPS Home Energy Management Systems (HEMS) Product Directory c. Maintain ccASHP Best Practices Regional Web-based Resource Center d. Update existing best practice ccASHP installer Guides (Installing and Sizing and Selecting) e. Develop Best Practice Video Guides to Select, Size and Install ASHPs in Cold Climates f. Create a Consumer ccASHP Operations and Maintenance (O&M) Guide g. Disseminate ccASHP Installer/Consumer Guidance Resources 4. Studies/Reports available at NEEP.org: <ol style="list-style-type: none"> a. “Assessing the Role of Smart Energy Homes in Strategic Electrification and Integration of Distributed Energy Resources (DERs)” 5. Strategic Planning: <ol style="list-style-type: none"> a. Develop project plan and funding structure for ccASHP Qualified Products List to begin 2019/2020 6. National, International and Regional Coordination and Collaboration <ol style="list-style-type: none"> a. Track, contribute to and collaborate with relevant efforts – State efforts (e.g., Rhode Island Power Sector Transformation, New York REV, MA Clean Energy Center), Yale Renewable Thermal Alliance, Acadia Center, Carbon Neutral Cities Alliance, NRDC, US DOE, ENERGY STAR, RMI, ACEEE, Natural Resources Canada, etc.



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C. Integrated Advanced Efficiency Solutions	
<p>3. Efficient, Low Carbon Commercial and Industrial Solutions</p> <p>Includes:</p> <p>Northeast Strategic Energy Management Initiative (SEM);</p> <p>Commercial HVAC Market Assessment (Refrigeration change out market event);</p> <p>Commercial Variable Refrigerant Flow (VRF); and</p> <p>Research and Development Connector.</p>	<ol style="list-style-type: none"> 1. Stakeholder Engagement/Public Meetings/Workshops/Updates: <ol style="list-style-type: none"> a. Regional Strategic Energy Management (SEM) Initiative Working Group (quarterly meetings) b. Commercial HVAC Market Assessment Advisory Committee c. Regional Commercial Variable Refrigerant Flow (VRF) Working Group convene quarterly meetings to be held in conjunction with ccASHP meeting d. Workshop: Strategic Energy Management (SEM) – in-person e. Workshop: Commercial HVAC Market Assessment Workshop f. Workshop: Research and Development (R&D) Connector to explore opportunities to drive greater awareness and eventual collaboration among R&D organizations in the region that aim to bring the next generation of energy efficiency technologies to market. 2. Technical Assistance, Tools and Guidelines available at NEEP.org: <ol style="list-style-type: none"> a. SEM best-practice resource center b. SEM- Develop and implement ISO 5001 Ready Pilot(s) c. SEM—Develop and disseminate best-practice “toolkit” for water/wastewater facilities d. VRF—Explore/Develop Technical Specification for VRF (potential incorporation into ccASHP Specification List) 3. Research, Studies and Reports to be available at NEEP.org: <ol style="list-style-type: none"> a. <i>New!</i> Commercial HVAC Market Assessment/Strategies Report—assess impacts and opportunities of upcoming refrigerant change-out on Commercial HVAC market, and identify potential high-efficiency replacement solutions with efficiency program recommendations b. <i>New!</i> VRF-Regional VRF Market Assessment Brief c. Existing: Strategic Energy Management Opportunities for Municipal Water and Waste Water Facilities 4. National and Regional Coordination and Collaboration Track, contribute to and collaborate with relevant efforts – State Forums and Programs, NRDC, ACEEE, US DOE, National Renewable Energy Lab, Pacific Northwest National Lab, Lawrence Berkeley National Lab, ENERGY STAR, RMI, E-Source, AHRI, Northwest Energy Efficiency Alliance, Midwest Energy efficiency Alliance, Southeast Energy Efficiency Alliance, etc.
<p>5. Federal and State Appliance Efficiency Standards</p>	<ol style="list-style-type: none"> 1. Stakeholder Engagement/Public Meetings/Workshops/Updates: <ol style="list-style-type: none"> a. Regional Appliance Standards Project Working Group (quarterly meetings/in-person state standards meeting/webinars/and materials) b. Publish or host relevant blogs c. Provide periodic updates to Working Group Members 2. Research, Tracking and Analysis: <ol style="list-style-type: none"> a. Track key opportunities to advance federal appliance standards including national voluntary program specification activity (i.e. ENERGY STAR) 3. Technical Assistance, Tools and Guidelines: <ol style="list-style-type: none"> a. Maintain at NEEP.org a web-based resource center b. Coordinate regional input to respond to high-impact standards/ENERGY STAR activity, including drafting comment letters and soliciting regional



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C. Integrated Advanced Efficiency Solutions	
	<p>support</p> <ul style="list-style-type: none"> c. Assist states in their efforts to adopt state-level appliance standards d. Develop regionally focused and state-specific fact sheets <p>4. National and Regional Coordination:</p> <ul style="list-style-type: none"> a. Coordinate with national, regional and state efforts (e.g., ACEEE, Appliance Standards Awareness Project, California Energy Commission, NASEO, NRDC, Alliance to Save Energy, National Consumers Alliance, Consumer Federation of America, Northwest Power and Conservation Council, etc.)

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D. Strategic Electrification	
<p>1. Northeast Strategic Electrification Leadership Forum</p>	<p>Stakeholder Engagement: Four Leadership Forum meetings of invited participants (At least one meeting to be the in-person including the public Northeast Advanced Efficiency Leadership Summit)</p>
<p>2. Strategic Electrification Progress Tracking, Case Studies and Regional Communications Strategy</p> <p><i>See also NEEP's Cold Climate Air Source Heat Pumps Initiative</i></p>	<ul style="list-style-type: none"> 1. Stakeholder Engagement/Presentations: <ul style="list-style-type: none"> a. Advisory Committee to inform development of a Regional Strategic Electrification Action Plan b. Presentations at State, Regional and National Conferences 2. Research Reports and Analyses on NEEP.org: <ul style="list-style-type: none"> a. <i>New!</i> Case Studies: Research, Prepare and Publish "Bright Spots" Exemplars of with leading examples of strategic electrification with deep efficiency in the region. b. <i>New!</i> Report: Research, develop and a Regional Strategic Electrification Public Communications Platform and Strategy 3. Technical Assistance, Tools and Guidelines on NEEP.org: <ul style="list-style-type: none"> a. Resource Center with Strategic Electrification definitions, examples and links to resources. b. Regularly updated strategic electrification "Tracker Tool" 4. National and Regional Coordination and Collaboration <p>Track, contribute to and collaborate with relevant efforts – Regulatory Assistance Project, State Forums (e.g., Rhode Island Power Transformation), NESCAUM, NASEO, Northeast Clean Energy Council, Acadia Center, Carbon Neutral Cities Alliance, US DOE, NRDC, RMI, etc.</p>



NEEP will hold eleven (11) regional workshops and summits in 2018 as listed below:

2018 NEEP Workshop Topic	Prospective month(s)	Location Options
A. Leadership Recognition and Progress Tracking		
1. Advanced Efficiency Leadership Summit	Sept-Oct	MA, NJ
2. Advanced EM&V Annual Meeting	April - May	NY
3. M&V 2.0 Workshop	Sept-Oct-Nov	VT
B. Resilient High Performance Buildings & Communities		
1. High Performance Schools Tour	April	ME
2. High Performance Schools Tour	April	MA
3. New Hampshire Schools Workshop and Tour	Sept-Oct-Nov	NH
4. HELIX In-Person Summit	Nov 2018 or Feb 2019	TBD
C. Integrated Advanced Efficiency Solutions		
1. Strategic Energy Management Workshop	Sept-Oct-Nov	VT, CT
2. Commercial HVAC Market Assessment Workshop	May - June	NY
3. State Appliance Standards Collaborative Meeting	Sept	RI, CT
4. Advanced Efficiency RD&D Connector	March	NY
D. Strategic Electrification		
1. ccASHP & Variable Refrigerant Flow Workshop (2 days)	May - June	NY