Executive Summary

As NEEP celebrates twenty years of regional collaboration and partnerships to advance energy efficiency, we are proud that the region continues to be recognized as a national energy efficiency leader. We are also proud that NEEP’s regional stakeholder collaboration, thought leadership, research and analyses, market transformation strategies, targeted technical assistance, and best practice resources are contributing to the region’s efficiency success. As we move forward with an eye on Next Generation Energy Efficiency, NEEP shares this report to highlight some of our 2016 achievements, which flow from our 2016 agenda.

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<tr>
<th>2016 NEEP Strategies</th>
<th>2016 NEEP Projects</th>
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<tr>
<td><strong>Advancing Efficiency Innovation</strong></td>
<td>1. Home Energy Management Systems</td>
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<td>Drive efficiency product, service and program innovation to increase regional-scale energy savings through multi-state research, analysis and market transformation strategies; qualified product lists, technical guidelines and case studies; and best practice peer exchange.</td>
<td>2. Residential Air Source Heat Pumps</td>
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<td>Develop regional market capacities to value and deliver energy efficiency through outreach, guidance and tools that provide common specifications, training, and frameworks to scale-up efficiency across states.</td>
<td>3. Residential Lighting</td>
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<td>Increase energy savings by aligning efficiency programs with advanced building energy code initiatives and appliance standards to lock-in the positive market impacts of successful efficiency programs.</td>
<td>4. Comprehensive Multifamily Retrofit</td>
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<td>Keep stakeholders abreast of best practices in public policy to drive energy efficiency by tracking, comparing and making accessible state efficiency policies, their implementation and results, and by highlighting key trends and issues.</td>
<td>5. Industrial Efficiency</td>
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<td>6. Business Leader Recognition Program</td>
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<td>8. Commercial Rooftop HVAC</td>
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<td>9. DesignLights Consortium and Advanced Lighting Controls</td>
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<td>10. Home and Building Energy Rating, Labeling and Disclosure</td>
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<td>11. Contractor, Realtor and Design Community Tools and Training</td>
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<td>12. Progressive Model Building Energy Codes</td>
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<td>13. State and Federal Appliance Standards</td>
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<td>14. Regional Energy Efficiency Database</td>
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<td>15. Regional Evaluation, Measurement and Verification Forum</td>
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<td>16. Public Policy Trends Analyses, Reports and Education</td>
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<td>17. Northeast Energy Efficiency Summit &amp; 20th Anniversary Celebration</td>
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Events & Stakeholder Engagement

• Hosted the 2016 Northeast Energy Efficiency Summit & 20th Anniversary Celebration
• Hosted the 2016 Regional EM&V Forum Annual Public Meeting
• Hosted an EM&V 2.0 Workshop to advance knowledge & understanding of next generation EM&V
• Convened the Regional Multifamily Leadership Group Summit
• Hosted the 2016 Home Energy Management Systems (HEMS) Workshop
• Held a HEMS Workshop at the ACI National Conference
• Hosted the 2016 Air Source Heat Pump (ASHP) Workshop
• Hosted the 2016 Northeast Residential Lighting Workshop
• Hosted the Northeast Strategic Energy Management (SEM) Collaborative In-Person Workshop
• Hosted the annual DLC Stakeholder Meeting
• With CHPS and the MFAA, hosted the CHPS Training: Solutions for Green Schools in Massachusetts
• Hosted the R.I. High Performance Schools Summit
• Hosted the N.H. High Performance Schools Summit
• Convened the inaugural HELIX Summit
• Recognized Business Leaders at the 2016 Northeast Energy Efficiency Summit
• NEEP sponsors were recognized as winners of the 2016 ENERGY STAR Partner of the Year-Sustained Excellence Award for Qualifying Products Award
Research, Analysis, Reports & Case Studies

- Completed the sixth annual Research, Analysis, Reports & Case Studies
- Completed the semi-annual Energy Efficiency Snapshot
- Added Program Year 2015 data to the Regional Energy Efficiency Database (REED)
- Developed new REED resources, including REED Renderings – a series of blogs
- Completed the Net Savings Research Report and three associated resources
- Disseminated the Checklist for Real Estate Professionals and Renter’s Checklist for an Energy Efficient Home
- Formally kicked off the Home Energy Labeling Information Exchange (HELIX) project
- Transitioned the DesignLights Consortium Solid State Lighting Qualified Products List (DLC SSL QPL) to version 3.0/3.1, which included 266,476 products by year end
- Released DLC Technical Requirements Version 4.1
- Added new systems to the Networked Lighting Controls Qualified Products List (NLC QPL), which included 15 systems by year end
- DLC released several policy updates: Revisions to the Private Labeling/Multiple Listing Policy; clarifications on Rated Data for Single Product Applications and Family Grouping Applications, Adoption of ANSI C78.377-2015, and the Surveillance Testing Policy
- Several Advanced Lighting Controls demonstration projects were installed by year end
- Phase I of the NLC Data Analysis Project moved forward
- Completed the draft ALC installer training curriculum
- Completed the Roadmap to Zero Energy Public Buildings: Progress Report
- Updated the Comprehensive Regional Multifamily Program Matrix
- Completed a Residential Lighting EM&V 2.0 Brief
- Finalized ccASHP Specification Version 2.0
- Completed the 2016 ‘State of the Market’ Residential Lighting Brief
- Published the Fall 2016 Policy Tracker
- Published a Resource Directory and Issue Briefs on the New York Reforming the Energy Vision proceedings and orders
• Contributed to the ACEEE report on Emerging Tech Incremental Costs
• Published an AESP Magazine article “The United States of Energy Efficiency”
• Published an Issue Brief on the Vermont PSB Docket 8550 order on “Energy Transformation”
• Released Multifamily Energy Efficiency Retrofits: Barriers and Opportunities for Deep Energy Savings, in collaboration with other REEOs MEEA, SEEA, SPEER, and SWEEP
• With the U.S. EPA and other partners, developed a new ENERGY STAR specification for connected thermostats
• Updated the HEMS Technology Assessment
• The ccASHP specification and associated list included 215 products by year end
• Developed a Strategic Energy Management for Energy Efficiency Program Primer
• Northeast Business Leaders success stories were published in MFRTech, WN.com, DCSEU news portal, TF Green Airport website, VT Digger, Progressive Grocer, and Solar Novus Today
• Released Public Sector Building Energy Benchmarking: Utility Data Access Options and Opportunities
• Developed high performance school

and city exemplars for: Howe-Manning Elementary School; Maynard High School; Kingswood Regional Schools; Wilbur-McMahon School; and the City of Providence
• Tracked California’s standards for computers, computer monitors, and signage displays, submitting public comments in May and October in support
• Began a research project with Connecticut DEEP and others, funded by U.S. DOE, on advanced analytics as an EM&V resource
• Completed the Incremental Cost study which looked at 10 diverse categories of technologies
• Released the Mid-Atlantic Technical Reference Manual Version 6.0
• Completed the most recent Loadshape Catalogue and accompanying Brief Report
• Published Scoping the Certification of Energy Program Impact Evaluators
• With the U.S. EPA and other partners, developed a new ENERGY STAR specification for connected thermostats
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Regional Market Transformation Strategies

- Completed Northeast/Mid-Atlantic Industrial Sector Report: Market Assessment and Recommended Strategies to Accelerate Energy Efficiency
- Published Northeast/Mid-Atlantic Air-Source Heat Pump (ASHP) Market Transformation Strategies Report
- The DesignLights Consortium became an independent 501(c)(3) organization in 2017 and launched a new website
Technical Assistance & Resource Centers

- Built and shared expertise on the integration of Energy Efficiency with Demand Side Resources
- Supported efforts to increase energy code efficiency in Maine, Massachusetts, New Hampshire, Connecticut, New York, and Rhode Island
- Supported innovative building energy projects in New York with comments on the Tompkins County Home Energy Rating Disclosure pilot
- Provided guidance in New Hampshire and Rhode Island on their building energy labeling efforts
- Engaged in the U.S. DOE’s General Service Lighting Notice of Proposed Rulemaking
- Led development of the 2020 Leadership Agenda for Existing Commercial and Multifamily Buildings for the SEE Action Existing Commercial Buildings Working Group
- Served as technical advisor to the N.H. Public Utility Commission’s Energy Efficiency as a Resource Standard proceeding
- Provided technical assistance to Portland and South Portland, Maine to inform clean energy plans and policy formation
- Served as facilitator and technical advisor to the R.I. High Performance Schools Working Group
- Provided resources to Vermont DPS’s Energy Codes Compliance Collaborative
- Served as technical advisor to the Rhode Island Zero Energy Task Force
- Promoted state-level appliance efficiency standards
- Provided feedback to ISO-New England on its draft 2016 Energy Efficiency Forecast
- Published and provided an Issue Brief on best practices in industrial energy efficiency programs to the Delaware Energy Efficiency Advisory Council
- Provided feedback at the request of Connecticut DEEP on the state’s Comprehensive Energy Strategy, as well as to the state’s Energy Efficiency Advisory Board on the updates to the 2016-2018 Conservation and Load Management Plan
- Provided feedback on the development of the FY17 Comprehensive Resource Analysis Straw Proposal and Compliance Filings for New Jersey’s Clean Energy Program at the request of the U.S. EPA
- Served as facilitator and advisor to Pennsylvania Department of Environmental Protection’s Energy Codes Compliance Collaborative
- Contributed to the process of developing federal standards for general service lighting
- Advanced research and analysis in the HEMS space through market characterization of smart thermostats and training on smart homes
- Provided technical assistance to regional program administrators in Massachusetts, Rhode Island, Connecticut, and New York
- Submitted public comments to support adoption of quality efficient lighting in
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<th>Technical Assistance &amp; Resource Centers</th>
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- Engaged with the ENERGY STAR Retail Products Platform (RPP)
- Provided technical assistance to municipal stakeholders throughout the region to improve energy efficiency
- Served as facilitator and technical advisor to the R.I. High Performance Schools Working Group
- Advanced zero energy buildings and homes in Rhode Island through participation in [R.I. Zero Net Energy Council](#)
- Worked to make zero energy schools the norm through partnership in [U.S. DOE Better Buildings Zero Energy Schools Accelerator](#)
- Guided Connecticut toward residential market transformation through support to Connecticut DEEP in efforts to achieve greater engagement of the real estate community
- Supported implementation and improvement of U.S. DOE’s asset rating tools
- Provided resources and support to energy code collaboratives in Delaware, New Hampshire, Vermont, Rhode Island, Connecticut, Maryland, and Pennsylvania
- Supported stretch energy codes in Massachusetts, Vermont, Rhode Island, and New York
- Provided direct code compliance and enforcement support to Maryland,
- Delaware, and the District of Columbia
- Participated in appliance standards federal rulemakings and co-signed comment letters to U.S. DOE for uninterruptable power supplies, portable air conditioners, residential central air conditioners/heat pumps, compressors, commercial water heaters, and residential gas furnaces
- Led [joint stakeholder comments](#) on U.S. EPA’s Draft Clean Power Plan 111(d) Model Rule and EM&V Guidance
- Served as a resource to policymakers, providing technical assistance and sharing best practices
- Served as technical advisor to the N.H. Public Utility Commission’s Energy Efficiency as a Resource Standard proceeding
- Provided in-person working group technical assistance in New Hampshire’s Grid Modernization working group
## Working Groups

- Home Energy Management Systems Working Group
- Cold Climate Air Source Heat Pump Working Group
- Residential Lighting & Retail Products Working Group
- Multifamily Retrofit Working Group
- High Performance Schools, Public Buildings & Communities Working Group
- Industrial Energy Efficiency/Strategic Energy Management Working Group
- HELIX Advisory Committee
- Building Energy Codes Working Group
- Appliance Standards Working Group
- Regional EM&V Forum Steering Committee & Project Committees
- DLC Industry Advisory Committee
- DLC SSL Technical Committee
- DLC NLC Advisory Committee
- DLC Controls Data Project Advisory Group
- DLC Stakeholder Meeting Advisory Committee
Q1-Q4 Web Metrics

2015 Unique Visitors
41,741

2015 Page Views
133,591

2016 Unique Visitors
45,346 ↑(8.6%)

2016 Page Views
165,695 ↑(24%)

Inbound Traffic

**Organic Search**
Traffic sourced without the use of paid advertisements.

**Direct**
Typing a URL directly into the browser, using a bookmark, or non-tracked links in emails, PDFs, etc.

**Referral**
Traffic originating from another website.

**E-Blasts**
Impressions directed from tracked links in our email communications

**Social**
Traffic originating from social media outlets e.g. Twitter, Facebook, LinkedIn, Pinterest, etc.

- Organic Search: 51.9%
- Direct: 26.6%
- Referral: 11.8%
- Social: 7.6%
- E-Blasts: 2.1%
Q1-Q4 Web Metrics

2015 Total Downloads 9,727

2016 Total Downloads 15,902  \(\uparrow(63.5\%)\)

PDF Downloads 13,057
Excel Downloads 2,309
Word Downloads 250

Top Blogs
1. Winter-Proof Heat Pumps (Bresler)
2. Changing Guards in Residential Lighting (Miziolek)
3. A "YUGE" Deal in NY (Buckley)
4. 10 Important Details About NYREV (Buckley)
5. What Is ASHRAE Standard 90.2? (Webster)

Top Downloads
1. ccASHP Specification
2. The Changing EM&amp;V Paradigm
3. Mid-Atlantic TRM V5
4. 2016 Regional Roundup
5. 2016 Heat Pump Incentive Summary

Top Media Hits

Vox (March 20, 2016) – Can low-income housing be efficient and affordable?
Inside Climate News (April 4, 2016) – Another $1.2 billion substation? No thanks, says utility, we’ll find a better way
Multi-Housing News (April 27, 2016) – Is it time for an energy retrofit?
Energy Manager Today (August 16, 2016) – The DesignLights Consortium amps up its networking initiatives
Public Power Daily (July 15, 2016) – Evaluation metrics vital to success of efficiency measures, experts say
Newburyport Daily News (September 16, 2016) – Bresnahan honored as high performance school
Q1-Q4 Web Metrics

Leaders By State
1. Massachusetts
2. New York
3. California
4. Vermont
5. DC

Leaders By City
1. Boston
2. Washington
3. New York
4. Ashburn
5. Burlington

Top Cities in Massachusetts
1. Boston
2. Waltham
3. Cambridge
4. Lexington
5. Concord