Energy Efficiency in Massachusetts

WEIGHING IN ON THE 2019-2021 THREE YEAR PLAN
FEBRUARY 26, 2018
Speakers & Webinar Logistics

Moderator: Eugenia Gibbons, Mass Energy Consumers Alliance

Presenters:
• Caitlin Peale Sloan, Staff Attorney, Conservation Law Foundation
• Amy Laura Cahn, Staff Attorney, Conservation Law Foundation
• Dr. Liz Stanton, Founder, Applied Economics Clinic

Logistics:
All participants will be muted.
Send questions via Q&A or chat features on Zoom or email to eugenia@massenergy.org.
Goals for Today

- Recap energy efficiency as a climate mitigation strategy/resource in Massachusetts.
- Review 3YP planning process, including why NOW is the time to engage.
- Preview recent findings from AEC data analysis.
- Identify actionable steps to engage in/influence policy & program designs currently being considered.
Energy Efficiency costs too much?

Where does your energy dollar go?

Generation 45%
Distribution 27%
- Transmission 12%
- Energy Conservation 11%
- Customer Charge 5%
- Renewable Energy 0.2%

Efficiency is Key to GWSA Compliance

- It's the cheapest resource available
- In Clean Energy & Climate Plan for 2020, a large portion of the GHG reductions expected from the Building sector (9MMTCO2e) come from EE
All Cost-Effective EE
MA Three Year Efficiency Plans

- Required by the Green Communities Act (GCA)

- Developed by utility program administrators (PAs), in collaboration with Energy Efficiency Advisory Council (EEAC) (chaired by DOER).

- Plans approved by DPU – include budgets, savings goals, approved measures, progress towards GCA, and plan for midterm modifications.

- 2019-2021 is 4th Three Year Plan
Plan Development Schedule

• **Prior to April:** EEAC workshops, preliminary planning, stakeholder listening sessions.

• **April:** Draft plan filed by PAs, reflects recommendations made by EEAC via Council resolution.

• **May – Sept:** Plan finalized

• **October:** Final plan filed with DPU for approval

• **January:** Implementation of approved plan.

*Check EEAC website/calendar regularly for changes.*
Major Topics EEAC is Grappling With

• Claimable savings from lighting are diminishing (residential sector only).

• Fuel Switching – using EE dollars to support heating system conversions that are “fuel neutral” or not limited to “fuel-to-fuel”

• Evolution of program to include proper demand management component.

• PA potential studies are still forthcoming.

• Acknowledgement that moderate income & renter initiatives are not going well, have been poorly implemented.
About AEC:

The Applied Economics Clinic is a 501(c)(3) non-profit consulting group housed at Tufts University's Global Development and Environment Institute. Founded in February 2017, the Clinic provides expert testimony, analysis, modeling, policy briefs, and reports for public interest groups on the topics of energy, environment, consumer protection, and equity, while providing on-the-job training to a new generation of technical experts. The Applied Economics Clinic's mission is:

1. To provide low cost and (when we receive foundation grants) pro bono expert services to public interest groups on the topics of energy, environment, consumer protection, and equity.
2. To train the next generation of expert technical witnesses and analysts by providing applied, on-the-job learning experiences to graduate students in related fields.
3. To work proactively to support and promote diversity in the fields of economics, engineering, math and sciences.
Substantial Differences in Savings by Town
Key Findings

- Savings differ by efficiency PA
- Lower income communities are receiving lower efficiency savings
- On average, Boston has achieved more efficiency savings than rest of state

<table>
<thead>
<tr>
<th>By Electric Utility</th>
<th>Town/Neighborhood Count</th>
<th>Residential &amp; Low-Income</th>
<th>Commercial &amp; Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eversource</td>
<td>153</td>
<td>2.7%</td>
<td>2.5%</td>
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<tr>
<td>National Grid</td>
<td>162</td>
<td>2.6%</td>
<td>2.2%</td>
</tr>
<tr>
<td>Unitil</td>
<td>3</td>
<td>1.6%</td>
<td>2.0%</td>
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<tr>
<td>Municipal</td>
<td>40</td>
<td>1.6%</td>
<td>1.0%</td>
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<tr>
<td>By Gas Utility</td>
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<td></td>
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<tr>
<td>Eversource</td>
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<td>2.7%</td>
<td>3.4%</td>
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<tr>
<td>National Grid</td>
<td>138</td>
<td>2.8%</td>
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<tr>
<td>Columbia</td>
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<td>2.1%</td>
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<tr>
<td>Berkshire</td>
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<td>2.3%</td>
<td>2.5%</td>
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<td>Liberty Utilities</td>
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<td>2.6%</td>
</tr>
<tr>
<td>Municipal</td>
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<tr>
<td>None</td>
<td>90</td>
<td>3.5%</td>
<td>2.8%</td>
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<tr>
<td>Median Income (MA: $70,954)</td>
<td></td>
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<tr>
<td>&lt;$45,000</td>
<td>17</td>
<td>1.9%</td>
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<td>$45,000-71,000</td>
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<td>2.2%</td>
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<td>$71,000-110,000</td>
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<td>2.8%</td>
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<td>&gt;$110,000</td>
<td>49</td>
<td>2.6%</td>
<td>2.4%</td>
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<tr>
<td>Boston</td>
<td>28</td>
<td>3.2%</td>
<td>2.4%</td>
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<tr>
<td>Not Boston</td>
<td>350</td>
<td>2.7%</td>
<td>2.6%</td>
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</table>
Disparities Exist Between Boston Neighborhoods
Recommendations

• High goals
• Data transparency
• Moderate Income & Renters
• Demand management plan
• Marketing/implementation plan for Renewable Thermal technology (heat pumps)
• Accountability tied to performance incentives
Recommendations

- PAs cannot lower the bar in 2019-2021 Three Year Efficiency Plan.
  - Potential studies, intended to inform plan design, are still missing.
- Plan must address data and demographic service gaps identified by AEC analysis.
- Performance Incentives split into smaller buckets, tied to specific achievements.
Public Input Matters

• March & April - the best times to weigh in on the plan, before drafts are released.

• DOER has arranged 8 statewide public listening sessions in March & April

• Other opportunities to submit feedback include during brief public comment period at start of monthly meetings or anytime via writing.
Prepping for Listening Sessions

• Introduce yourself: name, where you live, organizational affiliation (if one).

• Make comments clear and concise.

• Written feedback can be provided, too.

• Check the EEAC website (www.ma-eeac.org) and calendar, often.
Listening Sessions

**BOSTON**
Great Hall at Codman Square Health Center
6 Norfolk Street, Boston (Dorchester), MA 02124
**Wednesday February 28, 2018 from 6-8pm**

**FALL RIVER**
Bristol Community College, Room C111
777 Elsbree Street, Fall River, MA 02720
**Thursday March 8, 2018 from 6-8pm**

**SALEM**
Salem State University, Marsh Hall, 2nd floor
71 Loring Avenue, Salem, MA 01970
**Wednesday March 14, 2018 from 6-8pm**

**MASHPEE**
Mashpee Public Library
64 Steeple Street, Mashpee, MA 02649
**Monday March 19, 2018 from 6-8pm**

**PITTSFIELD**
Ralph Froio Senior Center
330 North Street, Pittsfield, MA 01201
**Thursday March 22, 2018 from 4-6pm**

**WORCESTER**
MA Department of Environmental Protection
8 New Bond Street, Worcester, MA 01606
**Thursday March 29, 2018 from 6-8pm**

**SPRINGFIELD**
UMass Center
1500 Main Street, Springfield, MA 01115
**Thursday April 5, 2018 from 6-8pm**

**LOWELL**
Lowell Senior Center
276 Broadway Street, Lowell, MA 01854
**Thursday April 12, 2018 from 6-8pm**
Next Steps

• Asks of Councilors

• Get your organizations to sign on to joint letter.

• Turn out to listening sessions!