Lighting Policy & Regulations


EPAct 1992

EPAct 1975


EPAct 2005

Phasing in of EISA (2010-2012)

EISA 2007


Last phase of EISA “the Backstop” (2020)

Timeline: Jamie Fitzke, EISA and Federal Regulatory Impacts to Lighting
EISA 2007

Round 1:

Round 2:

DOE was given flexibility in round 2, higher efficiency standards could be enacted on EISA specified lamps...but for appropriations
Would a lamp by any other name…
The Last 2 Years: Litigation, Settlement, & Back to Intent

- **January 2017** – DOE Publishes Final Rules (1 Day before Trump Administration takes office)

- **March 2017** - NEMA Formally Requests Rulemaking for GSLs & asks federal appeals court to review

- **July 2017** – DOE & NEMA Settlement:
  - August 2017 DOE issues NODA (notice of data availability) requesting market data for GSLs (standards & definition for GSIL could be amended)
  - DOE issue final rules regarding statutory backstops applicable to vibration and rough service lamps September 2017 (released in December 2017)

- **2018** – Is this thing on?

- **February 2019** – DOE issues NOPR to Withdraw Def. Established
  - February 28, 2019 Public Meeting
EISA In Real Time (Back to Intent, Litigation, Settlement or Repeat?)

- On February 6th, DOE NOPR announced:
  - Proposing to withdraw the definitions established in two final rules on January 19, 2017. DOE proposes to maintain the existing regulatory definitions of GSL and GSIL, which are the same as the statutory definitions of those terms.
  - February 28th, DOE Public Meeting (in person and web)
    - Docket number EERE--2018-BT-STD-0010
  - 60 days for comments
  - DOE requests comment on whether any potential lack of clarity on what standards may apply to certain GSLs and GSILs caused financial hardship to retailers trying to plan their inventory.
  - Ruling could be as early as Summer 2019
  - “Moreover, DOE has not yet made a final determination on whether standards applicable to GSILs should be amended, and, therefore, no backstop energy conservation standard has yet been imposed.”
    - Why can they do this now? Appropriations have been removed
2016-2018 Quarterly Shipments of Incandescent and Halogen lamps

### EISA Effects to Savings 2020+

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Incan Bulb (watt)</td>
<td>System Lumens</td>
<td>LED Lamp (w)</td>
<td>EISA Standards 2012-2014 (w)</td>
<td>EISA Standards 2020 (w)</td>
<td>Current Claimed Savings (Incan/CFL mix)</td>
<td>Current Claimed Savings (Mid-stream)</td>
<td>Claimed Savings 2020 (w)</td>
<td>1-H/F Reduction (Incan/CFL mix)</td>
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<tr>
<td>40</td>
<td>450</td>
<td>5</td>
<td>29</td>
<td>10.00</td>
<td>15</td>
<td>15</td>
<td>5.00</td>
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<td>14</td>
<td>53</td>
<td>24.44</td>
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<td>72</td>
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<td>45</td>
<td>45</td>
<td>16.56</td>
<td>63%</td>
<td>-3%</td>
</tr>
</tbody>
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**Non-weighted average:**
- **70%**
- **n/a**

**Note:** Current replacement system mix results in negative savings in many categories.

Chart: Jamie Fitzke, CEE - Memo for MN Potential Study.
Program impacts

Residential
• Largest impact
• Great concern to multi-measure programs that rely on lighting to be cost-effective or pass C/B test
• 80% of program impacted by EISA
• 60% reduction of GWH savings

Commercial / Industrial
• Impact, though not as great due diversity of lighting products in commercial programs
  • Decrease in lighting C/B tests, as GSLs are low cost and high savings
  • Multi-measure programs
• Mid-stream programs particularly affected
• 30% of program impacted by EISA
• 20% reduction of GWH savings

Represents over 20% loss in DSM portfolio savings
Potential Paths for early 2020s

Business as usual
• Keep existing savings due to regulatory uncertainty
• If mid-cycle, may need an approved program modification
• Market transformation?

Easing in
• Use halogen lamps (current base line) lifetime to determine savings
  • 2/3 savings 1st year
  • 1/3 savings 2nd year
  • No savings 3rd year
• Allows time for federal regulatory uncertainty
• Aid in program transitioning

Immediate
• Use 45 lm/w as baseline or stop rebating on EISA affected lamps
• Possible push back from trade allies
• Begin communication now
  • Residential big boxes purchases
• Consider exception for low income programs
THANK you!

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