

February 2019

EISA Update

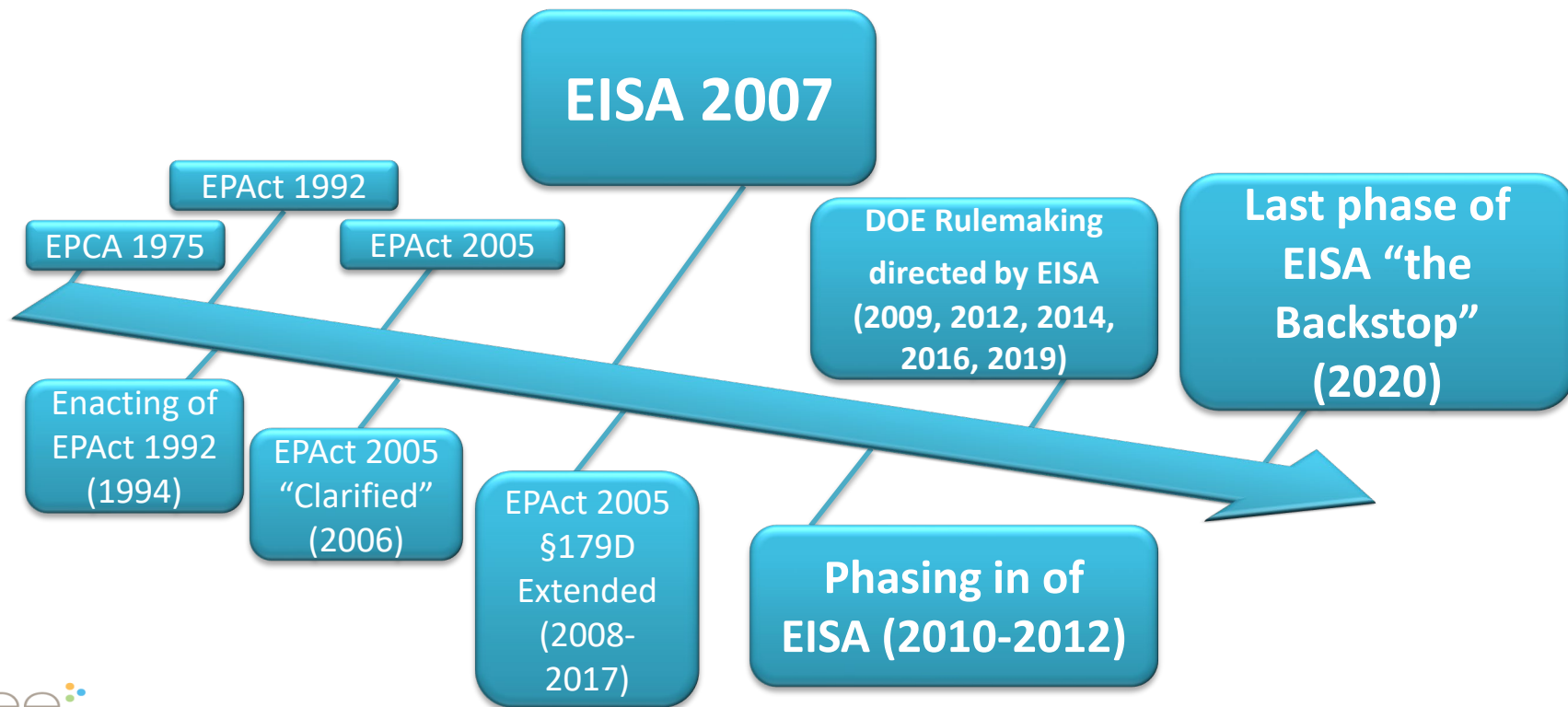
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Research & Development ❖ Programs ❖ Financing ❖ Education & Engagement ❖ Policy

Lighting Policy & Regulations



EISA 2007

Round 1:

Today's Bulbs	After the Standard	Standard Effective Date
100 watt	≤ 72 watts	January 1, 2012
75 watt	≤ 53 watts	January 1, 2013
60 watt	≤ 43 watts	January 1, 2014
40 watt	≤ 29 watts	January 1, 2014

Round 2:

45 LPW minimum by 2020

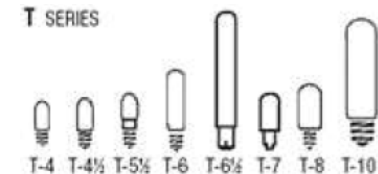
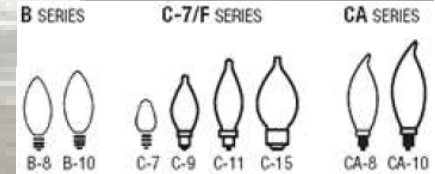
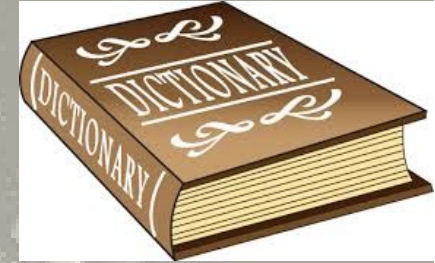
They're still out there	EISA Pre-2020	EISA Post-2020
100w	72w	35.6w
75w	53w	24.4w
60w	43w	17.8w
40w	29w	10w

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...



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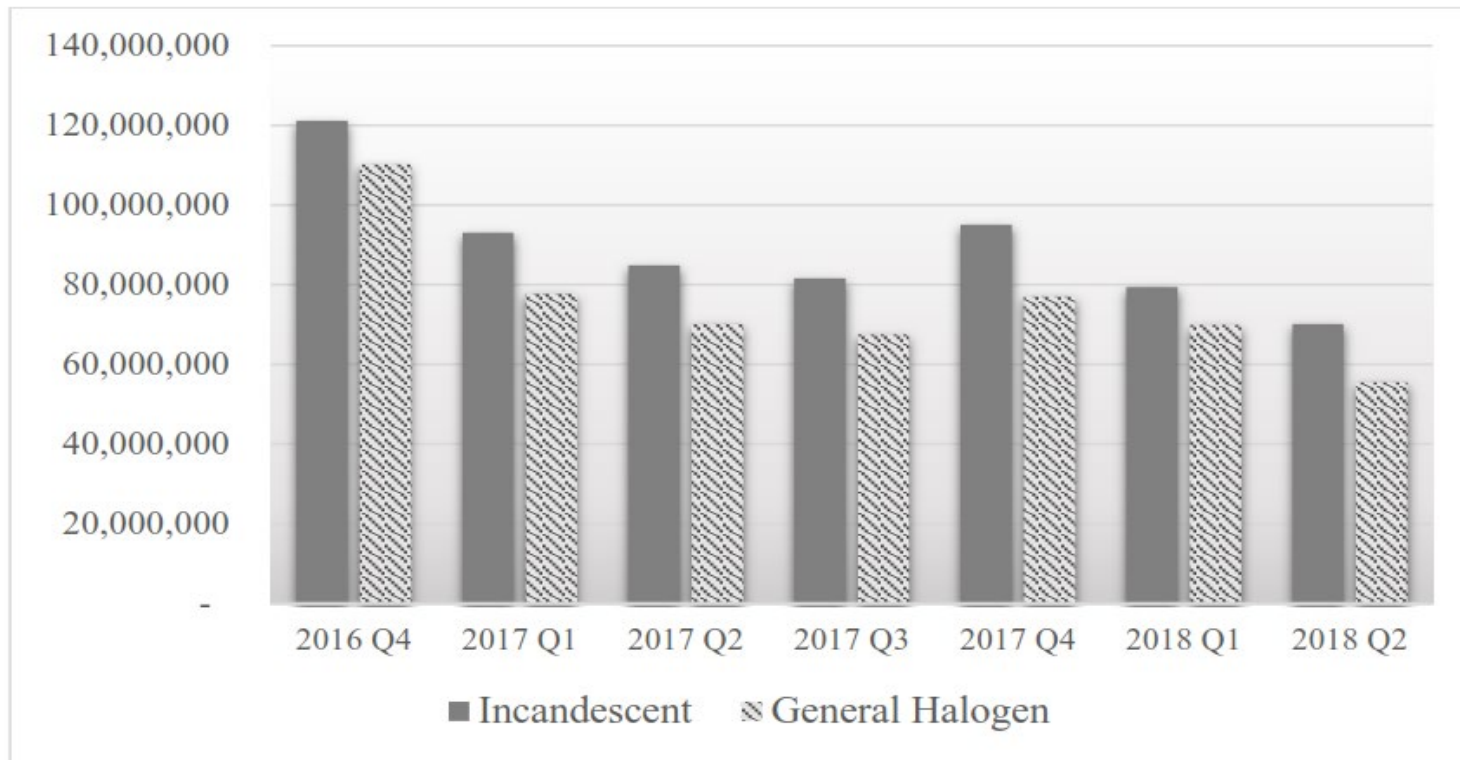
The Last 2 Years: Litigation, Settlement, & Back to Intent

- **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.
 - A-lamps: EISA, Reflector Halogens: DOE, Floods/Decorative/Specialty: None
 - 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.”

2016-2018 Quarterly Shipments of Incandescent and Halogen lamps



What does this mean to me?

EISA Effects to Savings 2020+									
A	B	C	D	E B/45 LPW EISA Standards 2020 (w)	F Current Claimed Savings (Incan/ CFL mix)	G Current Claimed Savings (Mid- stream)	H E-C Claimed Savings 2020 (w)	I 1-H/F Reduction (Incan/CFL mix)	J 1-H/G Reduction (Mid- stream)
Incan Bulb (watt)	System Lumens	LED Lamp (w)	EISA Standards 2012-2014 (w)						
40	450	5	29	10.00	15	16	5.00	67%	69%
60	800	8	43	17.78	37	16	9.78	74%	39%
75	1100	14	53	24.44	45	16	10.44	77%	35%
100	1600	19	72	35.56	45	16	16.56	63%	-3%
Non-weighted average								70%	n/a

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

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 to 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

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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