

MOMENTUM SAVINGS

Monthly Call July 27 2016

AGENDA



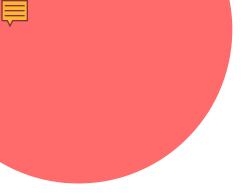
LIGHTING STUDIES MODEL REVIEW

Will be reviewed by BPA RTF Market Analysis Subcommittee

Subcommittee members have full access to Analytica model

Comments will be reviewed and integrated where appropriate





July 29

Subcommittee meeting:

- Model demo
- Guidance on reviewing model

August 8

Subcommittee receives:

- Model
- Methodology memo
- Comment tracker

September 9

Subcommittee provides feedback to BPA/research team

October 14

Final model is complete

RESIDENTIAL MODEL REVIEW



September 7

Subcommittee meeting:

- Model demo
- Guidance on reviewing model

September 9

Subcommittee receives:

- Model
- Methodology memo
- Comment tracker

October 14

Subcommittee provides feedback to BPA/research team

November 4

Final model is complete

NON-RESIDENTIAL MODEL REVIEW





Risk of errors in analysis

WHAT'S NEXT?

Weekly Announcements: we may postpone August 18th meeting





OVER THE 6TH PLAN

- Quantified 174 aMW; likely to rise as new lighting projects complete
- 2. Drivers for large savings:
 - 1. NEEA (TVs)
 - 2. Appliance Standards
 - Non-residential lighting

OVER THE 7TH PLAN

- 1. Draft forecast of 194 aMW
- 2. Drivers for large savings:
 - Non-residential lighting
 - 2. Residential lighting
 - 3. Appliance Standards

METHODOLOGY

- Review of Technical Potential, Program Savings and Momentum Savings Model and data
- 2. Review of upcoming standards
- 3. Review of load forecast
- 4. Professional judgment applied based on 6th Plan analysis

SAVINGS CATEGORIES

- NEEA: the difference between Council baseline and NEEA baseline
- 2. Appliance Standards: Standards not included in market momentum and NEEA
- 3. Market Momentum: Markets BPA tracks (Lighting & HVAC)

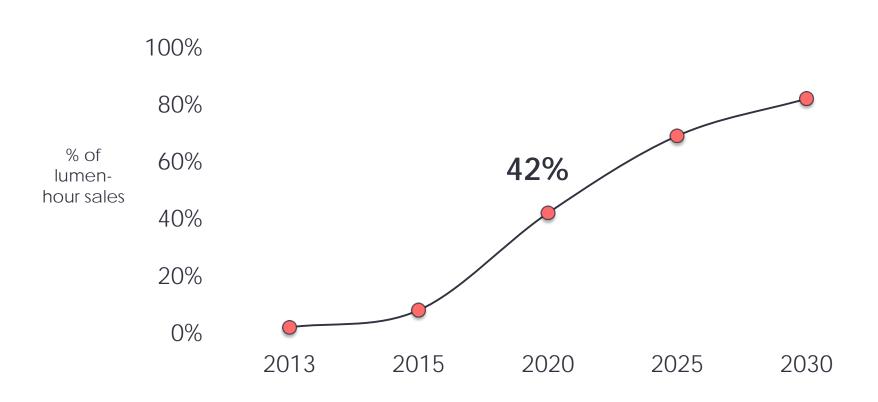
SAVINGS BY CATEGORY, DRAFT

				Total
	Market	Standards	NEEA	Savings
Year	Momentum	Momentum	Momentum	(aMW)
2016	7	0	3	10
2017	11	1	4	16
2018	19	2	6	27
2019	24	3	7	34
2020	27	10	5	42
2021	27	24	14	64
Total	114	40	40	194

Note: High Confidence in the total standards and market total over 6 years but Low Confidence as to what particular year they occur.

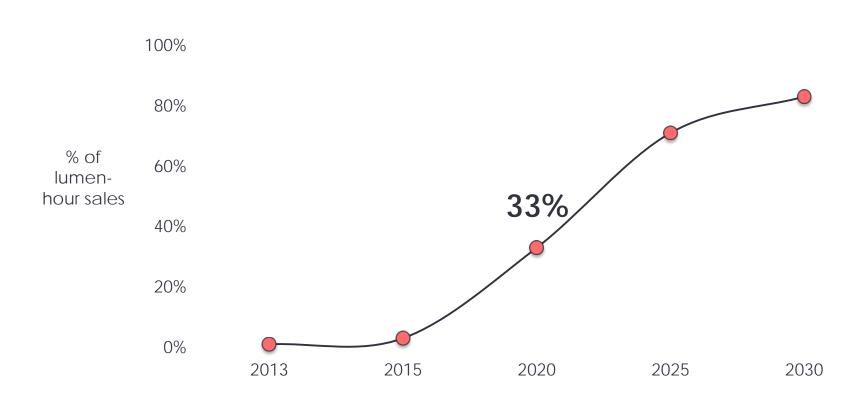
FUTURE LED MARKET SHARE

COMMERCIAL SPACE



FUTURE LED MARKET SHARE

RESIDENTIAL SPACE



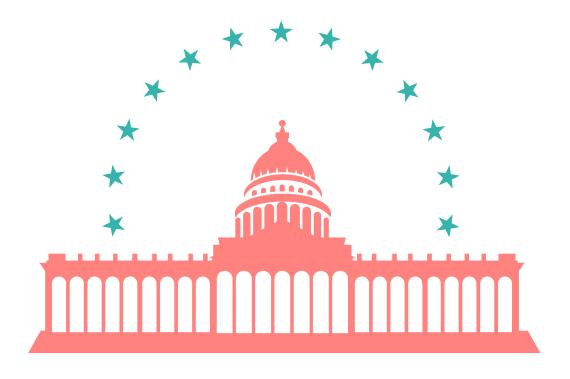
SAVINGS BY CATEGORY, DRAFT

	2016	2017	2018	2019	2020	2021
Air Source Heat Pumps	1	1	1	1	1	1
Res Lighting	-1	1	3	10	10	10
Non-res Lighting	-1	2	3	20	25	26
Total Market	→ -1	4	7	31	36	37

First Year is small or negative then grows

NEW MODEL

- Updated projections of market movement and savings
- 2. Could impact projections and inform the year in which savings occur



Appliance standards remain significant: Assuming 7th Plan Savings are similar to 6th Plan



Uncertainties:
New product coverage
Election results

Our Plan:

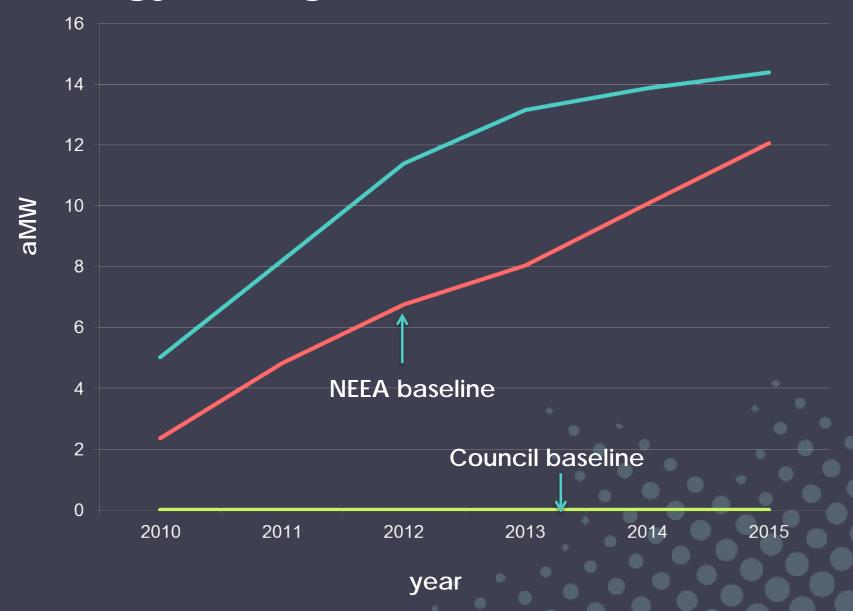
Begin modeling standards early in Plan period in partnership with NEEA; adjust forecasts if needed in future

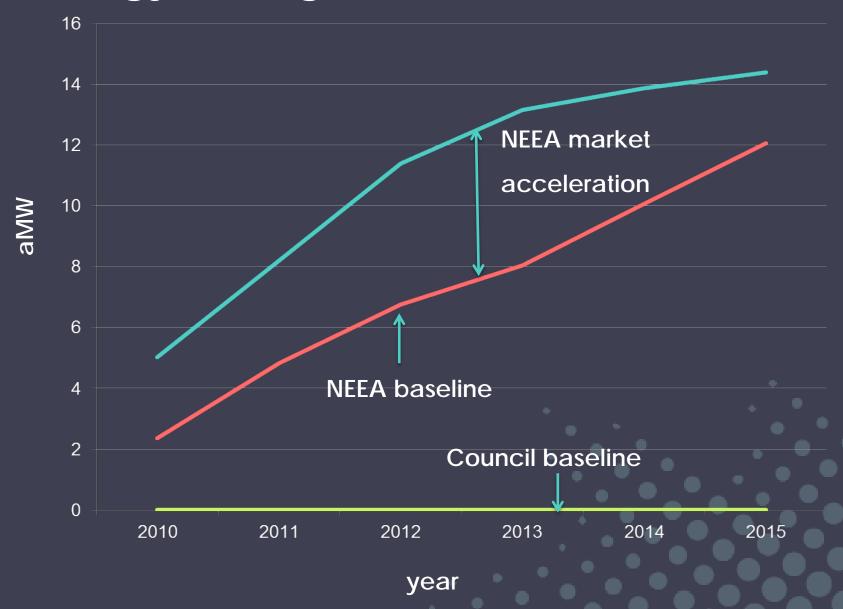




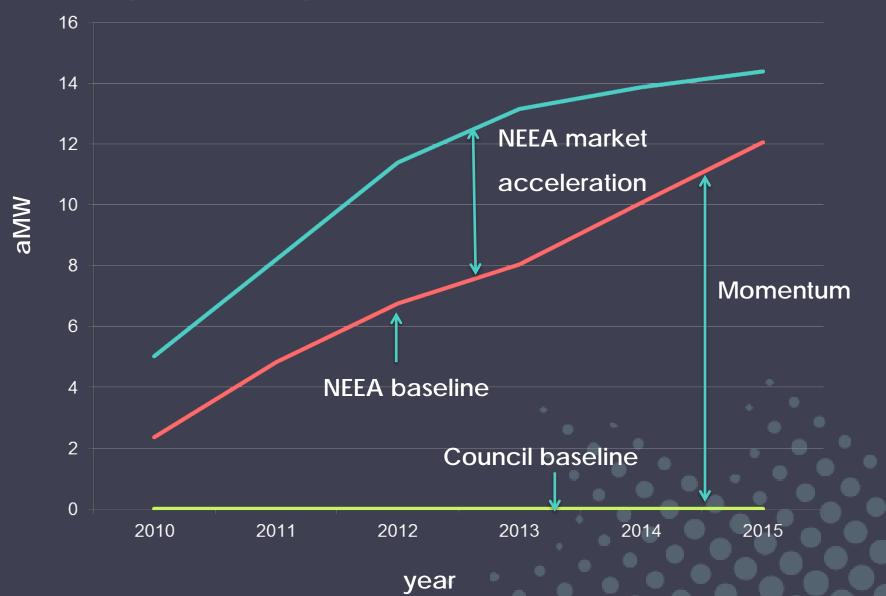








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WATCH FOR

- 1. Lighting Model estimates and model review: results will be interesting
- 2. Baseline library: more to come by first week of August
- 3. Non-res lighting: TLED presentation and white paper
- 4. Avoiding double-counting presentation
- 5. Lighting project: booklet under development; interview results memo under review
- 6. Conduit-ed series this Fall



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