ComEd Energy Efficiency Program



Lessons from 2018, Outlook to 2019+

November 20, 2019



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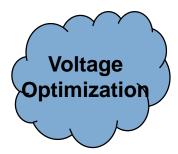
>10MW Exemption



- 1. CPAS Lifetime savings (vs. first year savings) is now key
- 2. WAML Portfolio-level savings persistence for amortization schedule
- 3. AAIG Annual incremental savings
- **ROE** EE spend (investment) is now rate based (equity) with rate-of-return (ROE)
- 5. Therms Gas (and other fuel) savings can be counted as kWh









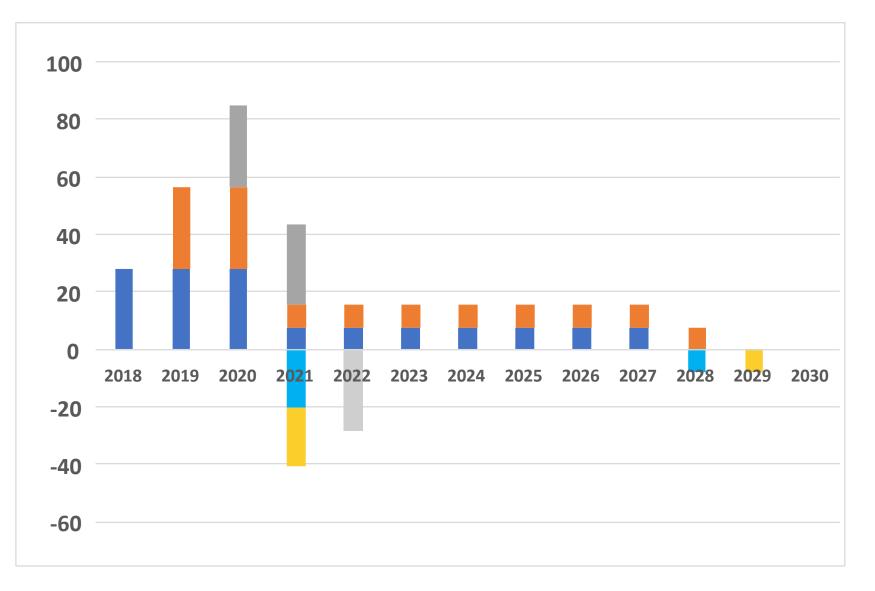
- FEJA requires us to ask new questions:
 - How long do the savings persist?
 - What are the expired savings?
 - Can we acquire free, long measure-life therms?
 - Can we improve programs to make savings more persistent and to avoid expired savings?
 - Can we improve programs to be more cost-effective (in terms of TRC and lifetime cost per kWh)?
 - Can we find new measures that will improve the costeffectiveness of the portfolio?



- Where do expired savings come from?
 - Any measure reaching the end of its life before or in 2030
 - Any measure reducing savings level during its lifetime, resulting from:
 - Hybrid baselines
 - Early replacements (T-12's)
 - Lighting measures with EISA-affected baseline
 - Deemed savings degradation (Behavioral)
 - Other measures with variable savings streams (Street Lights, CHP)



Residential Omni LED Savings (CPAS & Expired Savings)





- Without consideration of any other factors or goals, those questions lead us to:
 - Prioritize long-life measures, with "minimum" measure life changing as we approach 2030 (WAML aside, 11-year ML is sufficient for 2020 measures to avoid expired savings through 2030)
 - Prioritize cost-effective measures with lower lifetime cost per kWh and 1.00+ TRC
 - Limit expired savings by avoiding short-life measures and measures with midlife adjustments from baseline shifts, degradation, etc.

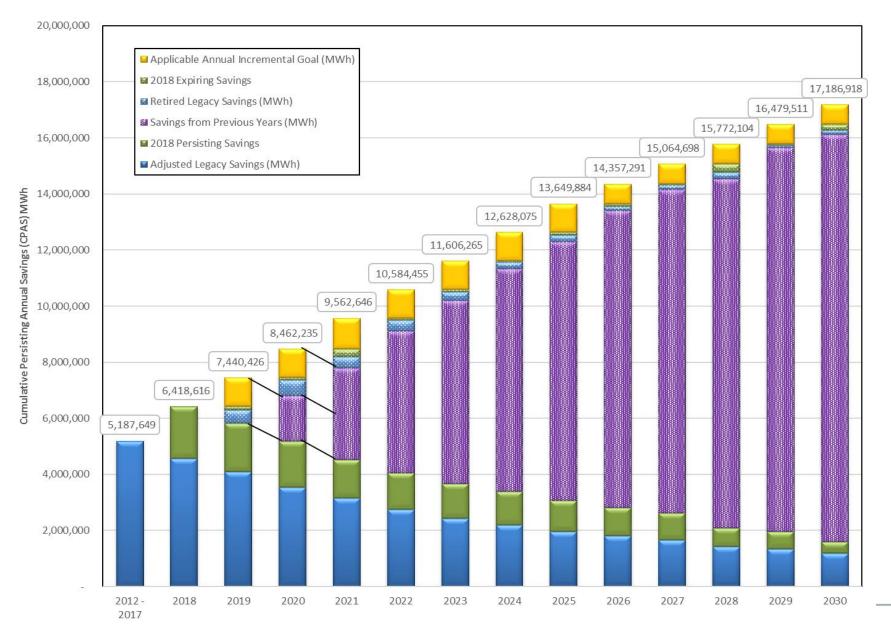


Other Priorities for Next Plan

- Comprehensive evaluation of new program opportunities (e.g., water, electrification, smart homes, connected commercial lighting, new channels, renewables, codes, market effects)
- Well-researched and logical upstream strategy
- Portfolio 2022-25 savings consistent with 2019 "best-inclass" potential study
- Productive R&D pipeline with strong evidence it's a critical long-term component of the EE portfolio



CPAS & AAIG with 2018 Results



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Utility Challenges in Meeting Aggressive CPAS Goals

- Many of the lowest cost measures are no longer viable in new CPAS framework (e.g., lighting, HER)
- Meeting CPAS goals while balancing competing policy objectives:
 - Serving IE customers and meeting IE spend goals:
 - ComEd wants to prioritize serving these customers, but as our most expensive programs must consider future spend levels
 - EISA-shortened measure lives of bulbs hurt ability to meet goals, but these measures are still valuable to IE customers
 - Claiming other fuel savings from IE programs is prioritized regardless of measure lives



Utility Challenges in Meeting Aggressive CPAS Goals

- Meeting CPAS goals while balancing competing policy objectives (continued):
 - Responding to baseline shifts, net-to-gross, and market adjustments
 - Ever-changing TRM assumptions and baseline discussions need to reconsider process
 - Third party programs
 - Public sector spend
 - >10 MW exemption

