

RESIDENTIAL OUTLOOK

Residential Consultant Team's 2016 Work Plan Priorities

EEAC Meeting
February 17, 2016

www.ma-eeac.org

NEW INITIATIVES FOR RENTERS AND MODERATE INCOME

- ▶ **Consultants and PAs plan to jointly develop key performance indicators. Will likely address:**
 - Conversions
 - Measure installation
 - Depth of savings
 - Landlord uptake
- ▶ **Assessing non-quantifiable program aspects will also be important:**
 - Ease of participation by renters and landlords
 - Clarity of program offers
 - Overall project management

MULTI-FAMILY RETROFIT



- ▶ **Monitor work with MF finance agencies to better leverage refinance opportunities:**
 - Develop list/bundles of measures and eligibility criteria for low income buildings to maximize the refi opportunity
- ▶ **Monitor deployment of newly modified MF initiative:**
 - What’s working and what isn’t
 - Effectiveness of generating whole-building improvement packages (impacting both residential and C&I meters)
 - Ease of tracking results
- ▶ **Investigate MF pay for performance (P4P) model**
 - Could be demonstrated using whole building approaches
- ▶ **Track results and assess impact of eligibility of weatherization measures for oil heated buildings**

HOME ENERGY SERVICES



- ▶ **Assess contractor performance framework:**
 - Effectiveness of enhanced incentives to contractors for multi-measure projects (e.g., promoting depth of savings)
 - Effectiveness of quality assurance process in conjunction with EM&V efforts; develop improvement recommendations
- ▶ **Develop performance-based models for single family**
 - Support development of performance based approaches
 - Develop and recommend strategies for establishing an infrastructure capable of supporting P4P models
- ▶ **Assess efforts with program delivery implications**
 - RCS
 - EM&V research (scope under revision)
 - PAs' work on streamlining the customer experience at audit

LIGHTING

LED PRICES CONTINUE DOWNWARD TREND

Low Cost Examples



**Utilitech 9-Watt (60W Equivalent)
3000K A19 Medium Base (E-26) Wa
White Indoor LED Bulb**

Item #: 747481 | Model #: YGA03A41-A19-9W-830

★★★★☆ [17 reviews](#) | [Write a review](#)

\$0.99

In-use lifestyle images - accessories not included

http://www.lowes.com/Lighting-Ceiling-Fans/Light-Bulbs/LED-Light-Bulbs/_/N-1z10ht5/pl?cm_cr=null_1_pl#!&N%5B%5D=1z10fgw&N%5B%5D=1z10ht5&Ns=p_product_price%7C0&page=1



\$4.39 / each

**Euri Lighting 40W Equivalent
Warm White A19 Dimmable
LED Light Bulb**

http://www.homedepot.com/b/Electrical-Light-Bulbs-LED-Light-Bulbs/A19/N-5yc1vZbm79Z1z0vvrd?Ns=P_REP_PRC_MODE%7C0

OTHER LIGHTING DEVELOPMENTS AND IMPLICATIONS

- ▶ **New (12/31/15) ENERGY STAR lamp specification**
 - Likely to be few, if any, ENERGY STAR CFLs after 2016
 - Lower standard lamp lifetime may allow lower cost LEDs to qualify
 - Optional connectivity criteria
- ▶ **Implications for program delivery and plan savings**
 - Must accelerate LED transition to achieve Plan savings goals
 - What are budget implications of increased LED program share?
 - How much will falling prices offset greater number of LED incentives?
- ▶ **How do we determine when to exit the market and what are the implications for the electric portfolio's savings?**

CONNECTED CONTROLS & PRODUCTS AND DEMAND RESPONSE

- ▶ **Increasing availability of connected thermostats**
 - Various capabilities
 - Some (many?) may not be configured for demand response (DR)
 - ENERGY STAR has been integrating optional connectivity criteria into updated product and HVAC specifications
 - But few models have such capability
- ▶ **ENERGY STAR also developing DR criteria**
- ▶ **Home energy management systems**
 - Multiple systems from a variety of vendors/service providers
- ▶ **Near-term program support: limited and strategic**
 - Continue exploring linkages between connected thermostats and behavior and other end uses through research and demos
 - Develop more specific thermostat program criteria?
 - Determine DR strategy and how connected devices fit therein

THANK YOU

Questions?