

LED Street Lighting



Public Information Sessions: October 8/9 & 23, 2014

Agenda

- 1. Introductions**
- 2. Product overview**
- 3. Customer economics**
- 4. Rate design**
- 5. Other utility LED programs**
- 6. Process update**
- 7. Anticipated timeline**
- 8. Discussion**
- 9. Next steps**

Introductions...

Product Overview

- ▶ Xcel Energy-owned street lights
- ▶ Roadway (cobrahead)-only
- ▶ 100W, 150W, 250W, 400W equivalent replacements
- ▶ New LED products / rates for voluntary adoption
 - ▶ Retrofits / replacements
 - ▶ New construction
 - ▶ No change to current products / rates
- ▶ Estimated product availability mid-2015*

*Subject to PUC approval

Customer Economics

- ▶ Move to new LED rate
- ▶ No up-front costs

Rate Design

- ▶ **Similar to SL rate structure:**
 - ▶ **System capacity**
 - ▶ **System energy**
 - ▶ **Plant recovery**
 - ▶ **Routine maintenance**
 - ▶ **A & G costs**
 - ▶ **Replacements**

Rate Design, Cont'd

- ▶ **Exclusions**
 - ▶ **Non-routine maintenance**
- ▶ **Rate analysis to date indicates LED rate will be slightly lower than SL rate***
 - ▶ **At all equivalent wattage levels**

***Subject to final rate modeling & vendor bids**

Other Company-Owned LED Programs

- ▶ **Duke Energy**
 - ▶ **Roadway only for retrofits / decoratives for new**
 - ▶ **No upfront charge for retrofits / customer pays delta for new**
 - ▶ **Rates slightly lower compared to HPS, higher compared to mercury vapor**

Other Company-Owned LED Programs

- ▶ **Pacific Gas and Electric**
 - ▶ **Roadway only**
 - ▶ **Customer pays replacement cost difference upfront**
 - ▶ **Rate similar to current HPS rate**

Other Company-Owned LED Programs, cont'd

- ▶ **Georgia Power**
 - ▶ **Roadway + 2 decorative post-top options**
 - ▶ **same rate / pricing**
 - ▶ **No upfront charge to customer**
 - ▶ **LED rate lower than HPS rate**

Other Company-Owned LED Programs, cont'd

- ▶ **Black Hills Energy**
 - ▶ **Customer-owned only, no company-owned**
- ▶ **City of Ft. Collins Utilities**
 - ▶ **Still in R&D**
- ▶ **Intermountain REA**
 - ▶ **Converting all stock on company's schedule**
 - ▶ **Limited decorative options for new construction**

Process Update

- ▶ **National procurement strategy**
- ▶ **Specifications complete**
- ▶ **RFQ out / preliminary responses back**
- ▶ **Technical review underway**
- ▶ **2015/16 DSM Plan- final draft preparation**
 - ▶ **Seeking approval for credit towards DSM savings goals**

Anticipated Timeline

- ▶ **October 30, 2014: DSM Plan filing**
- ▶ **Q4 2014: proposed LED rate filing with CPUC**
- ▶ **Winter 2015: product testing**
- ▶ **Spring 2015: DSM Plan approval (?)**
- ▶ **Spring 2015: contracting, procurement of LED labor and materials**
- ▶ **Summer 2015: CPUC Approval of LED rate**
- ▶ **Late Summer 2015: begin LED retrofits**

Discussion...

Next Steps

- ▶ **Submit additional written feedback:**
 - ▶ **susan.davis@xcelenergy.com**
- ▶ **Submit preliminary indications of program interest:**
 - ▶ **susan.davis@xcelenergy.com**
- ▶ **Formal application process created upon PUC approval**

