Work Paper SCE17WP015

**Revision 0**

**Short Form**

**Southern California Edison**

**Water Pump Upgrade**

**Introduction**

This short form workpaper (WP) documents the values adopted from PGE’s WP entitled “PGECOPUM106 rev0 Water Pump Upgrade”. SCE adopts all the values in PGECOPUM106 rev0, with the following exceptions:

1. Com Building Types savings were mapped to all applicable SCE commercial building types.
2. All SCE climate zone savings were populated using IOU climate zone from PG&E workpaper.
3. For Commercial pumps, SCE has adopted a different Load Shape which is “Hi\_Eff\_AC\_Mtr-NC”. For all industrial application it will be “Industrial”.
4. Two different calculation templates for Commercial, and Industrial applications are generated for appropriate representation of ExAnte data.
5. SCE has assigned the AgOth building type savings to MLi building type pursuant to the “2015\_Lighting\_Retrofit\_Guidance\_memo\_FINAL” [Attachment 2]

# Document Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Author** | **Summary of Changes** |
| 0 | 02/28/2018 | Ajay Wadhera/SCE | 1. Calculation templates were developed based on PGE’s ED Reports “PGECOPUM106 rev0”. |

**Measure Summary**

Table : Measure Summary Table

| **Section** | **Value** |
| --- | --- |
| **Summary & Purpose** | This short form workpaper documents ex-ante load impacts and cost-effectiveness values for PGECOPUM106 rev0 Water pump Upgrade workpaper. The base wattage and energy savings values are from PG&E’s workpaper PGECOPUM106 rev0 Water pump Upgrade. |
| **1.1 Measure & Baseline** | Please refer to Attachment #1 Calculation Templates for the list of measure solution codes and baseline condition. |
| **1.2 Technical Description** |  |
| **Measures** | No Difference except SCE mapped PG7E’s Com building type to all applicable SCE building types.  For Industrial building type, SCE mapped the savings to MLi building type. Also, the savings for MLi bulding type are mapped to the AgOth building type from PG&E’s workpaper. |
| **Code for All Measures** | No Difference |
| **Requirements** | Please refer to PGECOPUM106 rev0 workpaper for further details.   * The customer must be a residential or commercial SCE electric customer |
| **1.3 Installation Type and Delivery Mechanisms** |  |
| **Installation Type** | No Difference |
| **Delivery Mechanisms** | SCE is adding Down-Stream Incentive - Deemed  Mid-Stream Incentive and Financial Support - Direct Install |
| **1.4.1 DEER Data** |  |
| **Net-Gross-Ratio** | No Difference |
| **Effective and Remaining Useful Life** | No Difference |
| **Section 2. Calculation Methodology** |  |
| **Energy savings/Peak Demand Reduction – All Measures** | No Difference |
| **Section 3. Load Shapes** | Commercial – “Hi\_Eff\_AC\_Mtr-NC”  Industrial – “Industrial” |
| **Section 4. Costs** |  |
| **Section 4.1 Base and Measure Costs** | Please refer to Attachment #1 Calculation Templates for detailed baseline and measure costs. |

**Attachments**

1. SCE17WP015.0 A1 – Calculation Templates\_Final.zip
2. SCE17WP015.0 A2 2015\_Lighting\_Retrofit\_Guidance\_memo\_FINAL