Short Form Work Paper WPSDGEREWH0023

**Revision 0.1**

**San Diego Gas & Electric**

**Energy Efficiency Engineering**

**Central Storage Water Heaters for Multifamily Residential Applications**

**March 2, 2018**

# SDG&E Central Storage Water Heaters for Multifamily Residential Applications

## Introduction

This short form workpaper (WP) documents the values adopted from SCG’s WPs entitled “Central Storage Water Heaters for Multifamily Residential Applications” (WPSCGREWH130613A-Rev01\_CentralStorageWH\_MFRes.docx). SDG&E adopts all the values, with the following exception:

1. SDG&E references only climate zones that are within its territory (CZs 6, 7, 8, 10, 14, 15)
2. SDG&E will offer both Downstream Rebate and Direct Install

## Document Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Author** | **Summary of Changes** |
| 0 | 10/23/2017 | Kelvin Valenzuela/SDGE | * Adapted SCG’s workpaper WPSCGREHW130613A Rev 1 * CZs 6, 7, 8, 10, 14, 15 were referenced for SDG&E |
| **0.1** | **3/2/2018** | **Kelvin Valenzuela/SDGE** | * Added new implementation IDs for Downstream Rebate |
|  |  |  |  |

## Measure Summary

Table : Measure Summary Table

| **Section** | **Value** |
| --- | --- |
| **Summary & Purpose** | This short form workpaper documents only implementation IDs added for Downstream Delivery Channel. No other changes are taken from REV 0. |
| **1.1 Measure & Baseline Data** | Measure:  464042 – Domestic Hot Water Boiler TE = 84% and input rating > 75 MBtuh (Direct Install)  464043 – Domestic Hot Water Boiler TE = 90% and input rating > 75 MBtuh (Direct Install)  464280 – Domestic Hot Water Boiler TE = 84% and input rating > 75 MBtuh (Downstream)  464281 – Domestic Hot Water Boiler TE = 90% and input rating > 75 MBtuh (Downstream) |
| **1.2 Technical Description** | No Changes from REV 0. |
| Measures | No Changes from REV 0. |
| Code for All Measures |  |
| Requirements |  |
| **1.3 Installation Type and Delivery Mechanisms** |  |
| Installation Type | No Changes from REV 0. |
| Delivery Mechanisms | No Changes from REV 0. |
| **1.4.1 DEER Data** |  |
| Net-to-Gross Ratio | No Changes from REV 0. |
| Effective and Remaining Useful Life | No Changes from REV 0. |
| **Section 2. Calculation Methodology** |  |
| Energy Savings/Peak Demand Reduction – All Measures | No Changes from REV 0. |
| **Section 3. Load Shapes** | No Changes from REV 0. |
| **Section 4. Costs** |  |
| **Section 4.1 Base and Measure Costs** |  |
| Base Cost | No Changes from REV 0. |
| Measure Cost | No Changes from REV 0. |