

Open Q Proposal

Program/Measure Name: Custom HVAC and HPWH measures

Date: 10/30/2024

1. Brief description of program or measure(s) proposed for Open Q consideration:

- Overall Summary
Provide a high-level summary of the proposed measure or program you are planning to implement and report to BPA.
 - With our custom measures program, we aim to drive the market to upsell higher efficiency HVAC and water heating technologies. Our measures are grouped into the following categories: commercial HVAC, VRF, Chillers, Residential HVAC, PTHP, HPWH, ECM & PEI Pumps, FEI Fans, and Lab Grade Refrigeration.
- Describe the baseline conditions for the program/measure
What is the inefficient condition the measure or program will change? This represents the starting place from which you propose to measure savings.
 - Refer to the Baseline Efficiency columns of the attached measure table for baseline conditions of each measure.
 - See [SCL Midstream Programs - Evaluation Findings Meeting - 2024-04-19] & [SCL_Baseline Reference Memo_4.15.24]
- Described the proposed energy efficient measure/program
How will the measure or program change the baseline conditions? What will it do to create energy savings?
 - We create energy savings by incentivizing products that are more efficient than their respective baselines.
- What are the implementation criteria or requirements of the measure/program?
What implementation rules will your proposed measure/program require? Are there any specific criteria you plan to impose?
 - Refer to the Qualifying Criteria & Incentive Levels columns of the attached measure table to see our requirements for each measure. Our incentive processing software is designed to flag any projects that do not meet our equipment and installation criteria.

2. Please provide the following values and an outline of how you estimated or calculated them (if submitting technical files to show calculations, you can say “see [filename]”):

- Measure Savings
What savings do you estimate for this proposed measure / program per installation and how did you estimate them?
 - Some savings are calculated with a formula and others are deemed from their respective Regional Technical Forum (RTF) measure workbook.

Refer to the Savings columns of the attached measure table. Columns labeled “Average Savings” are calculated while columns labeled “Deemed Savings” are deemed. Calculated savings will vary for each type of qualifying equipment coming through the program. To display potential savings for these measures on the measure table, we calculate assuming an average equipment efficiency based on past program data.

- **Measure Incremental Cost**

How much does the measure/program cost compared to the baseline? For example, if you are proposing to install a more efficient technology, how much more does it cost than an inefficient alternative?

- Refer to the IMC columns of the attached measure table for incremental costs of each measure. Under NDA, Energy Solutions has collected data from multiple manufacturers and distributors and aggregated that information to approximate appropriate IMCs.

- **Measure Life**

How long do you think the measure will last after it is installed? How long before it would typically be replaced or deactivated?

- We will be using BPA-deemed measure lives.

- **Market Potential**

How much total savings do you think this program can achieve and how did you estimate this figure?

- We are starting the process of forecasting for 2025 and can provide some numbers shortly. These values are determined through evaluation of previous program performance. We also incorporate market intelligence to adjust for anticipated fluctuations for the coming year.

3. What method will be used to verify the savings post-installation?

Approval requires verification of estimated savings within two years of approval. This can be done through evaluation or onsite verification. What is your proposed means of verifying savings?

- Please see savings and equipment verification procedures attached.
[Savings Verification Procedure 10302024.docx] & [Equipment Verification Procedure 10302024.docx]

4. Will you be collecting any data from the installation sites?

- Would you be willing to share that data with BPA for further measure development?
 - Willing to discuss further about what data would be needed.

For Reference: Payment Rate Table from Section 4.1 of the Implementation Manual:

PROJECT TYPE	MEASURE LIFE (YEARS)	SECTOR	PAYMENT RATE (\$/KWH)
Nonresidential Lighting	All	Agricultural Commercial Industrial	\$0.13
New or Retrofit Construction, Major Renovation (Excluding Nonresidential Lighting)	1	All	\$0.025
	2-3	Agricultural Commercial Industrial Residential	\$0.06
	4-19	Agricultural Commercial Industrial Residential Utility Distribution	\$0.33
		Whole Building New Construction *	\$0.35
	20+	Agricultural Commercial Industrial Residential Utility Distribution	\$0.38
New Construction	45+	Residential	\$0.45