2023 HOME ENERGY-EFFICIENCY REBATE PROGRAM

Solar Thermal Water Heating
SWH Add-on Measure to SoCalGas Home Energy-Efficiency Rebate Program

➢ Single Family residential customers purchasing and installing qualified energy-efficient products in existing SF detached homes & attached homes (up to a four-plex).
   Note: New Construction does not qualify.
➢ Authorized Rebate Program through 2023
➢ Scaled Rebate Depending on Water Heating System Efficiency installed (e.g., ENERGY STAR®)
➢ Recommended NABCEP (North American Board of Certified Energy Professionals) Installed Certification Training.
➢ The service territory covers 12 counties & included most of the region’s heavily populated areas, with the exception of the city of Long Beach and county of San Diego.
Application Timeline

» **Select and Purchase:** Qualifying product(s) must be purchased and installed between January 1, 2023, and December 31, 2023, to be eligible for a rebate.

» **Install:** Qualifying product(s) must be installed prior to submitting a rebate.
  - A licensed North American Board of Certified Energy Professionals (NABCEP) contractor is highly recommended for installation. Refer to NABCEP website for eligible participating contractors.

» **Submit Rebate Application:** Customers must sign, print their name, and date application. Provide paid receipt(s) or proof of purchase. Applications must be postmarked December 31, 2023, or earlier, to be eligible for a rebate.
  - Applications must be submitted by the SoCalGas customer.
  - ALL applications are processed on a first-come, first-served basis upon receipt until funds are depleted. INCOMPLETE or INCORRECT APPLICATIONS CANNOT BE PROCESSED. Resubmitted applications are processed on a first-come, first-served basis upon the new receipt date.

» **Third-Party Verification:** A third-party verifier may inspect the installation and confirm that it meets all requirements.

» **Receive Rebate Payment:** If all program requirements are met, a rebate check is generally mailed within 6 to 8 weeks.
How to Apply:

- **Online Applications** Easiest method for customer to fill out & faster to process.
  - URL for Mobile Customers: socalgas.com/Rebate

- **through My Account**: socalgas.com/MyAccount

- **Mail-in Rebate Application**
  - SoCalGas, Residential Solar Thermal Water Heater Rebate
    P.O. Box 512670, Los Angeles, CA 90051-0670
**Qualifying Solar Systems**

- **System Type:** Indirect Systems only (currently). No direct systems.
  - Gas storage (tank-type) or gas tankless backup
- **Solar System Installed Orientation and Slope**
  - Azimuth: 180 (South) +/- 40 degrees.
  - Slope: 10-50 degrees from horizontal.
- **Certification Requirements**
  - OG-100 certified solar collector
  - OG-300 certified system
  - ENERGY STAR certified system
- **Sizing Requirements**
  - Based on the number of bedrooms as a proxy for occupants (see table below). Single Family SHW System Sizing Table.
  - ENERGY STAR specifies a load size for each certified SWH based on collector array area. Available from ENERGY STAR or SRCC directory.

<table>
<thead>
<tr>
<th>Number of Bedrooms</th>
<th>Very Small (10 GPD)</th>
<th>Low (38 GPD)</th>
<th>Medium (55 GPD)</th>
<th>High (84 GPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>x</td>
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<td>3</td>
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<td>4</td>
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<td>x</td>
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<tr>
<td>5</td>
<td></td>
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<td>x</td>
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</table>
Installation Requirements

» SoCalGas recommends that all equipment to be installed by a CSLB licensed contractor with NABCEP certification.
  ▪ NABCEP Certification is provided to installers by the North American Board of Certified Energy Professionals (NABCEP)
  ▪ See the NABCEP Certification Directory to locate a qualified installer and get their installer certification number.

» Be prepared to participate in any required verification of installation(s).
  ▪ SoCalGas or another third party will verify the solar thermal water heating system.
Product Specifications - ENERGY STAR® Solar Thermal Water Heating Systems

The Certified ENERGY STAR Solar Water Heating Systems must have a Solar Uniform Energy Factor (SUEF) of 1.8 or greater.

<table>
<thead>
<tr>
<th>ENERGY STAR Solar Thermal Water Heating System Rebate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY STAR Solar Thermal Water Heating System with an ENERGY STAR Tankless Gas backup (.95 UEF or above) replacing a Tankless Gas Water Heater – $4,500 rebate</td>
</tr>
<tr>
<td>ENERGY STAR Solar Thermal Water Heating System with an ENERGY STAR Tankless Gas backup (.95 UEF or above) replacing a Storage Gas Water Heater – $4,500 rebate</td>
</tr>
<tr>
<td>ENERGY STAR Solar Thermal Water Heating System with an ENERGY STAR Storage Gas backup (up to 55 gallons) replacing a Storage Gas Water Heater – $3,500 rebate</td>
</tr>
<tr>
<td>ENERGY STAR Solar Thermal Water Heating System with a NON-ENERGY STAR Tankless Gas backup (.82 UEF or above) replacing a Tankless Gas Water Heater – $3,000 rebate</td>
</tr>
<tr>
<td>ENERGY STAR Solar Thermal Water Heating System with a NON-ENERGY STAR Tankless Gas backup (.82 UEF or above) replacing a Storage Gas Water Heater – $3,000 rebate</td>
</tr>
<tr>
<td>ENERGY STAR Solar Thermal Water Heating System with a NON-ENERGY STAR Storage Gas Water Heater (up to 55 gallons) backup replacing a Storage Gas Water Heater – $2,500 rebate</td>
</tr>
</tbody>
</table>

Incentive levels are subject to change.
How to Qualify for ENERGY STAR®

» Manufacturer must be an ENERGY STAR partner ([apply online for free](#))

» Minimum Requirements for System
  ▪ OG-300 certification
  ▪ SUEF $\geq 1.8$ (for gas backup systems)
  ▪ Minimum warranty requirements
    • $> 10$ years for collector
    • $> 6$ years on sealed system
    • $> 2$ years on controls
    • $> 1$ year on piping & parts

» Must report annual sales of certified products to EPA.

» Annual renewal required.
What is Solar Uniform Energy Factor (SUEF)?

» Performance metric based on DOE Uniform Energy Factor (UEF).

» Generated through TRNSYS computer modeling.

» Available for any OG-300 certified system.

» Size of hot water draw pattern used based on total solar thermal array size.

<table>
<thead>
<tr>
<th>Total Area of Solar Collector Array*</th>
<th>DOE Draw Pattern**</th>
<th>SoCalGas House Size (Bedrooms)</th>
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<tbody>
<tr>
<td>0 – 24 ft²</td>
<td>Very-Small Usage (10 gpd)</td>
<td>1</td>
</tr>
<tr>
<td>24 – 38 ft²</td>
<td>Low-Usage (38 gpd)</td>
<td>1,2</td>
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<tr>
<td>38 – 64 ft²</td>
<td>Medium-Usage (55 gpd)</td>
<td>2,3,4</td>
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<tr>
<td>&gt; 64 ft²</td>
<td>High-Usage (84 gpd)</td>
<td>4,5</td>
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</table>

*Size of hot water draw pattern used based on total solar thermal array size.
ENERGY STAR® Certification Process for Manufacturers

1. **Step 1:** Register as an ENERGY STAR Partner
2. **Step 2:** Get OG-300 Certification and SUEF
3. **Step 3:** Apply for ENERGY STAR Certification from SRCC
4. **Step 4:** Evaluation and Posting on SRCC and EPA Websites
# Finding System Information for SoCalGas Forms

## SRCC OG-300 Directory

| OG-300 Number | Manufacturer | Brand Name | Model | Solar System Type | Backup Water Heater Type | Total Collector Area (TEC) | [CCZ] A - Arcadia solar fraction (SF) | ENERGY STAR | Expiration Date | Canada Climate Change Savings
<table>
<thead>
<tr>
<th></th>
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<tr>
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<td>AES 802 &amp; AES 8525 Free Heat</td>
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<td>05/01/04</td>
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<tr>
<td>20060934</td>
<td>Universal Solar Products, Inc.</td>
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<td>S-2-2-8</td>
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<td>11/01/03</td>
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</tbody>
</table>

## SRCC Listing Directory

### Modelling

The system listing and/or cooling products listed below have been evaluated by the Solar Rating & Certification Corporation (SRCC)—an ISO/IEC 17025 accredited and EPA-recognized Certification Body in Accordance with the SRCC Procedure for Solar Thermal Listing Reports, and the specific standards for solar thermal thermal products.

<table>
<thead>
<tr>
<th>ENERGY STAR Cert. No.6</th>
<th>System Type</th>
<th>Backup Water Heater</th>
<th>Model Number</th>
<th>SUEF</th>
<th>SUEF Draw Pattern</th>
<th>OG-300 Cert No.5</th>
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<td>2006079C</td>
<td>Indirect Pumped</td>
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<td>Indirect Pumped</td>
<td>Electric Tank</td>
<td>EagleSun DX-120-64</td>
<td>5.8</td>
<td>High (84 gpd)</td>
<td>2006002E</td>
</tr>
</tbody>
</table>
Want More Information?

**ENERGY STAR® LINKS**
- ENERGY STAR Water Heater Directory
- Manufacturer Partner Registration
- Unit shipment information
- Brand and Logo Use

**SoCalGas LINKS**
- SoCalGas Rebates Webpage
- Mail-In Application Form
- Online Application Form
- Getting to Know Your Solar Water Heater

**SRCC LINKS**
- ENERGY STAR Certification Program Summary
- SUEF Metric information
- SRCC Directories
- SRCC FAQ
- SRCC Application Portal
QUESTIONS?