

# TUCSON ELECTRIC POWER COMPANY RETROACTIVE PROGRAM RESIDENTIAL SOLAR WATER – SPACE HEATING APPLICATION

## Customer Information

Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_, AZ Zip Code \_\_\_\_\_

Street Address (if different from above) \_\_\_\_\_

Daytime Phone Number \_\_\_\_\_

E-mail Address: \_\_\_\_\_ Account \_\_\_\_\_

Account Number \_\_\_\_\_

Operating Agent if different from Customer. \_\_\_\_\_

## System Information

OG 300 Certification Number \_\_\_\_\_

Estimated annual kWh savings based on OG300/SRCC Rating \_\_\_\_\_

Active  Passive

Description of power supplies or back up supplies for active systems. AC or DC/Gas or Electric.

\_\_\_\_\_  
\_\_\_\_\_

**Active, open-loop systems are not eligible for incentives except for active, open-loop systems that have a proven technology or design that include appropriate automatic methods for freeze protection.**

Open Loop  Closed Loop

Antifreeze  Drainback  Thermosiphon

Controller Type \_\_\_\_\_ Manufacturer \_\_\_\_\_

Pump Type \_\_\_\_\_ Manufacturer \_\_\_\_\_

Collector Type \_\_\_\_\_ Manufacturer \_\_\_\_\_

Drainback \_\_\_\_\_ Manufacturer \_\_\_\_\_

Draindown \_\_\_\_\_ Manufacturer \_\_\_\_\_

Type of Antifreeze \_\_\_\_\_ Concentration of \_\_\_\_\_ Manufacturer of \_\_\_\_\_

Freeze Protection Manual  Automatic  Back up

Freeze Protection Description

\_\_\_\_\_  
\_\_\_\_\_

High Point Vents Designed  Low Point Drains Designed

Backup Heat  Boiler  Instantaneous  Standard Tank  Combined Tank

**Domestic Solar Water Heating systems will be rated by the SRCC and meet the OG-300 system standard. Systems that include OG-100 collectors, but are not certified under OG-300, will need to be verified by submitting a testing certification for a substantially similar system prepared by a publicly funded laboratory. Solar Space Heating systems will utilize OG-100 collectors.**

Horizontal Tilt Angle \_\_\_\_\_ (20 and 60 Degrees or 30 and 60 degrees for **space heating applications**)

Azimuth Angle \_\_\_\_\_ (+/- 45 degrees of due south)

Type of Mount \_\_\_\_\_ Roof \_\_\_\_\_ Ground

Shading \_\_\_\_\_

Cathodic  Anodic

Type of corrosion protection \_\_\_\_\_

Collector Manufacturer \_\_\_\_\_ Model \_\_\_\_\_ Quantity \_\_\_\_\_

Total Collector Area \_\_\_\_\_ Collector Material \_\_\_\_\_

Minimum collector wall thickness (for ICS is .058 inches or greater) \_\_\_\_\_

Solar Storage Volume \_\_\_\_\_ Gallons

Heat Exchanger  Internal (Immersion)  Wrap around the tank  External  None

Total Cost \_\_\_\_\_ System Cost \_\_\_\_\_ Labor Cost \_\_\_\_\_

Installation Date \_\_\_\_\_

**Warranty Information**

**Contractors must provide a minimum warranty period of five years for labor and repair/replacement service to the customer for warranted items. For out of warranty items prior to year five, customers will not be charged for labor.**

**Collector, heat exchanger and storage units need a factory warranty of ten years for UFI and five years for a PBI.**

Collector \_\_\_\_ years Storage \_\_\_\_ years Pump \_\_\_\_ years Controller \_\_\_\_ years

Installation/Workmanship Warranty \_\_\_\_ years. Copy of equipment specifications must be attached to application.

**Rebate Calculation – Up Front Incentive (UFI) – Full Compliance**

Annual Energy Savings (Therms) \_\_\_\_\_ x 29.3 kWh per therm = Annual kWh Savings

OG300 rating in annual kwh savings \_\_\_\_\_ x \$0.25\* + \$750 up to maximum of \$1,750 OR

TEP Payback = Total cost – 15% (Customer’s Portion) – \$2,000 (Max Federal Tax Credit) – \$1,000 (Max State Tax Credit)

Actual payment made to customer will be the lesser of the two parameters up to the maximum of \$1,750.

**Total TEP payback cannot be more than 60% of total system cost. Customer must pay at least 15% of the total system cost.**

**Deratings from Full Compliance**

1. Customer has pre-June 1, 2008, installation and is only partially qualified under SRCC OG300 or the original equipment does not meet current warranty requirements - receives 20% incentive reduction.
2. Customer has pre-June 1, 2008, installation and cannot qualify under SRCC OG300 or a substantially similar system to OG300 or system is not operable or marginally operable after inspection verification – no incentive payment.

**Project Information**

Has a City/County Permit been secured? \_\_\_\_ Yes \_\_\_\_ No

**System Qualifications**

The system must meet the requirements outlined in Attachment A of the Residential Solar Water – Space Heating Agreement. Does this installation meet all ACC Interconnection/REST requirements? \_\_\_\_ Yes \_\_\_\_ No

Stagnation temperatures do not pose a problem with this system.

\_\_\_\_\_ Installer Signature

The system is properly sized according to the geographic location and hot water needs of the specific application.

\_\_\_\_\_ Installer Signature

**Installer Information**

Installer/Dealer Name \_\_\_\_\_

Business Address \_\_\_\_\_

Arizona Registrar of Contractors (AZROC) License Information

AZROC License Number \_\_\_\_\_ Class \_\_\_\_\_ Expiration Date \_\_\_\_\_

**Assignment of Payment**

I authorize Tucson Electric Power (TEP) to issue, on my behalf, my full rebate to the following installer/dealer as payment toward the cost and/or installation of my PV system. I acknowledge that the payment made to the below named installer satisfies the financial obligation to me in connection with the Agreement signed by myself and TEP.

Company Name \_\_\_\_\_

Contact Person \_\_\_\_\_

Business Address \_\_\_\_\_

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

**Solar Water System Inspection Authorization**

TEP, at its option, may perform periodic inspections of the system to ensure it is operating efficiently and safely. Presently TEP outsources all SunShare inspection services to a qualified third-party contractor. Do you authorize TEP to use a qualified third party contractor for your annual inspection?

Authorization Agreed

Authorization Denied

There are animals in the yard that the Program Inspector needs to be aware of: \_\_\_\_\_ Yes \_\_\_\_\_ No

**WHEN COMPLETE PLEASE MAIL TO: Renewables, PO Box 711, Mailstop DS501, Tucson, AZ 85702**