

# ELECTRICAL DISTRICT # 2

## SOLAR ELECTRICAL APPLICATION AND AGREEMENT

---

### INSTRUCTIONS

This is the application for residential or commercial solar installations. Complete the form and include a quote and full set of electrical drawings for review. Please send the application via e-mail, fax or mail to the address below.

Mail: Electrical District # 2  
P.O. Box 548  
Coolidge, AZ 85228

Fax: (520) 723-5252

E-mail: [dale.cassity@ed2.com](mailto:dale.cassity@ed2.com)

---

### CUSTOMER

Name on ED2 Account \_\_\_\_\_

Spouse Name (Residential Only) \_\_\_\_\_ Daytime Phone # \_\_\_\_\_

Service Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

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

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Meter # (where the system will tie in) \_\_\_\_\_ E-mail \_\_\_\_\_

Form completed by \_\_\_\_\_ Phone \_\_\_\_\_

### INSTALLER

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

Contact \_\_\_\_\_ Fax \_\_\_\_\_

E-mail Address \_\_\_\_\_

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

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

License(s) Number:  C-05 \_\_\_\_\_  C-11 \_\_\_\_\_  L-05 \_\_\_\_\_

L-11 \_\_\_\_\_  K-05 \_\_\_\_\_  K-11 \_\_\_\_\_

**EQUIPMENT DEALER** (  Same as Installer)

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

Contact \_\_\_\_\_ Fax \_\_\_\_\_

E-mail Address \_\_\_\_\_

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

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

**SOLAR ELECTRIC SYSTEM INFORMATION**

**System Information:**

On-grid       Off-grid       Expansion to existing system (only list new equipment)

Existing Building       New Building

New Service Entrance/Entrance Upgrade?  Yes  No

**Manufacturer Information:**

Module \_\_\_\_\_ Model # \_\_\_\_\_ Qty. \_\_\_\_\_

Inverter \_\_\_\_\_ Model # \_\_\_\_\_ Qty. \_\_\_\_\_

Battery \_\_\_\_\_ Model # \_\_\_\_\_ Qty. \_\_\_\_\_

**Array Rating (DC Watt STC)** \_\_\_\_\_

**Inverter Rating:** kW-AC \_\_\_\_\_ Voltage \_\_\_\_\_  Single Phase  Three Phase

**Estimated Installation Date:** \_\_\_\_\_

## ELECTRICAL DRAWING INFORMATION

The information below must be submitted for all projects. Diagrams must also include project name and address, show system size and all protective relaying and control equipment, as well as service entrance and ED2 meter. **For system expansions, the drawings must show the complete system.**

- A. **Electrical One-line diagram.**
- B. **Electrical Three-line diagram:**  
Include all neutral and ground conductors and connections.
- C. **Site Plan and Maps:**  
Include the street address, arrangement of the major equipment, including the electrical service entrance section and ED2 meter, location of generator and interface equipment, and the location of the disconnect switch.
- D. **Point of Contact:**  
If the interconnection and start-up process is to be coordinated through a party or individual other than the Customer, provide the name, company, address and phone number of that party with whom ED2 is to coordinate the interconnection.

## ED2 SOLAR ENERGY PROGRAM TERMS AND CONDITIONS

This ED2 Solar Electric Agreement ("Agreement") is entered into by and between Customer and Electrical District # 2, a utility provider district organized and existing pursuant to the laws of the State of Arizona ("ED2"), sometimes referred to individually as a "Party" and collectively as the "Parties." The definitions and information included in the ED2 Solar Energy Solar Electric Application are also incorporated into this Agreement. The Parties agree as follows:

### QUALIFICATIONS

1. Customer is an ED2 account holder and will install the solar electric system ("Generating Facility") in ED2 service territory.
2. Only ED2 customers are eligible.
3. Customer may elect to have a separate entity ("Third Party") design, install, own or operate the Generating Facility and satisfy some or all of the terms of this Agreement via separate contractual agreement with the Third Party.
4. To connect the Generating Facility to ED2's electrical grid, the Customer shall sign and date this form and meet all ED2 interconnection requirements (as set forth in ED2's Rules and Regulations and Interconnection Guidelines for Distributed Generators).

### INSTALLATION & EQUIPMENT SPECIFICATIONS

5. Customer must use a licensed contractor. Eligible license classifications include: C-05, C-11, L-05, L-11, K-05, and K-11. To verify a contractor's license validity, please visit the Arizona Registrar of Contractors at [www.azroc.gov](http://www.azroc.gov). ED2 shall not be held liable for any damages or other problems resulting from the Generating Facility or installation to the Generating Facility.
6. Generating Facilities must be permitted and inspected as required by local and state codes.
7. Customer shall be responsible for the design, installation, construction, operation and maintenance of the Generating Facility in accordance with all manufacturers' requirements, all applicable codes and laws, and the requirements of all governmental agencies having jurisdiction. ED2 does not warrant or guarantee the amount of energy, energy savings, or product reliability.
8. The electric meter through which the Customer receives service from ED2 that is connected to the Generating Facility will be placed on the applicable ED2 electric rate schedule, as determined and set from time to time by the ED2 Board of

Directors. Such rate schedules are subject to review and change by the Board. Customer agrees to comply with all terms and conditions of the applicable ED2 rate schedule and all ED2 policies and procedures.

- 9. Customer shall transfer and deliver to ED2 all Environmental Attributes and Environmental Attribute Reporting Rights, as such terms are defined below, associated with the generation of energy by the Generating Facility that accrue or are earned during the term of ED2's electric service to Customer. If the Generating Facility is owned by a Third Party, Customer shall require Third Party to transfer and deliver to ED2 all Environmental Attributes and Environmental Attribute Reporting Rights associated with the generation of energy by the Generating Facility. This provision shall survive the termination of this Agreement and any subsequent sale(s) of the Generating Facility. "Environmental Attributes" shall mean any and all fuel, emissions, air quality, or other environmental characteristics, including green energy tags, renewable energy credits, or certificates attributable to the metered output generated by the Generating Facility and in which Customer or Third Party owner has property rights or will have property rights upon such attributes coming into existence. "Environmental Attributes Reporting Rights" shall mean all rights to report ownership of the Environmental Attributes to any person or entity under Section 1605(b) of the Energy Policy Act of 1992, any successor or replacement statutes, or otherwise.

**ADDITIONAL INFORMATION**

- 10. Customer agrees to let ED2 monitor output of Customer's Generating Facility to verify energy generation.
- 11. Customer agrees to let ED2 use data from Customer's Generating Facility in research activities and to publish the data.
- 12. ED2 reserves the right to reject any application that does not meet the terms or conditions of ED2's Interconnection Guidelines for Distributed Generators.
- 13. This Agreement shall be interpreted, governed by, and construed in accordance with the substantive and procedural laws of the State of Arizona, without regard to conflicts of law principles. The Parties agree that any action, suit or proceeding arising out of or relating to this Agreement shall be initiated and prosecuted in state or federal court of competent jurisdiction located in Pinal County, Arizona, and the Parties irrevocably submit to the jurisdiction and venue of such court. The prevailing Party in any action to enforce or interpret this Agreement shall be entitled to recover its reasonable attorneys' fees and costs, including expert witness fees. To the fullest extent permitted by law, each Party hereby irrevocably waives any and all rights to a trial by jury and covenants and agrees that it will not request a trial by jury with respect to any legal proceeding arising out of or relating to this Agreement.

This Agreement is dated and effective as of the latest signature date below.

"CUSTOMER"

"ED2"

By: \_\_\_\_\_  
Signature

By: \_\_\_\_\_  
General Manager

Name: \_\_\_\_\_/Customer  
Print Name

Name: \_\_\_\_\_  
Print Name

Its: \_\_\_\_\_  
Title (Commercial Only)

Date: \_\_\_\_\_

Date: \_\_\_\_\_

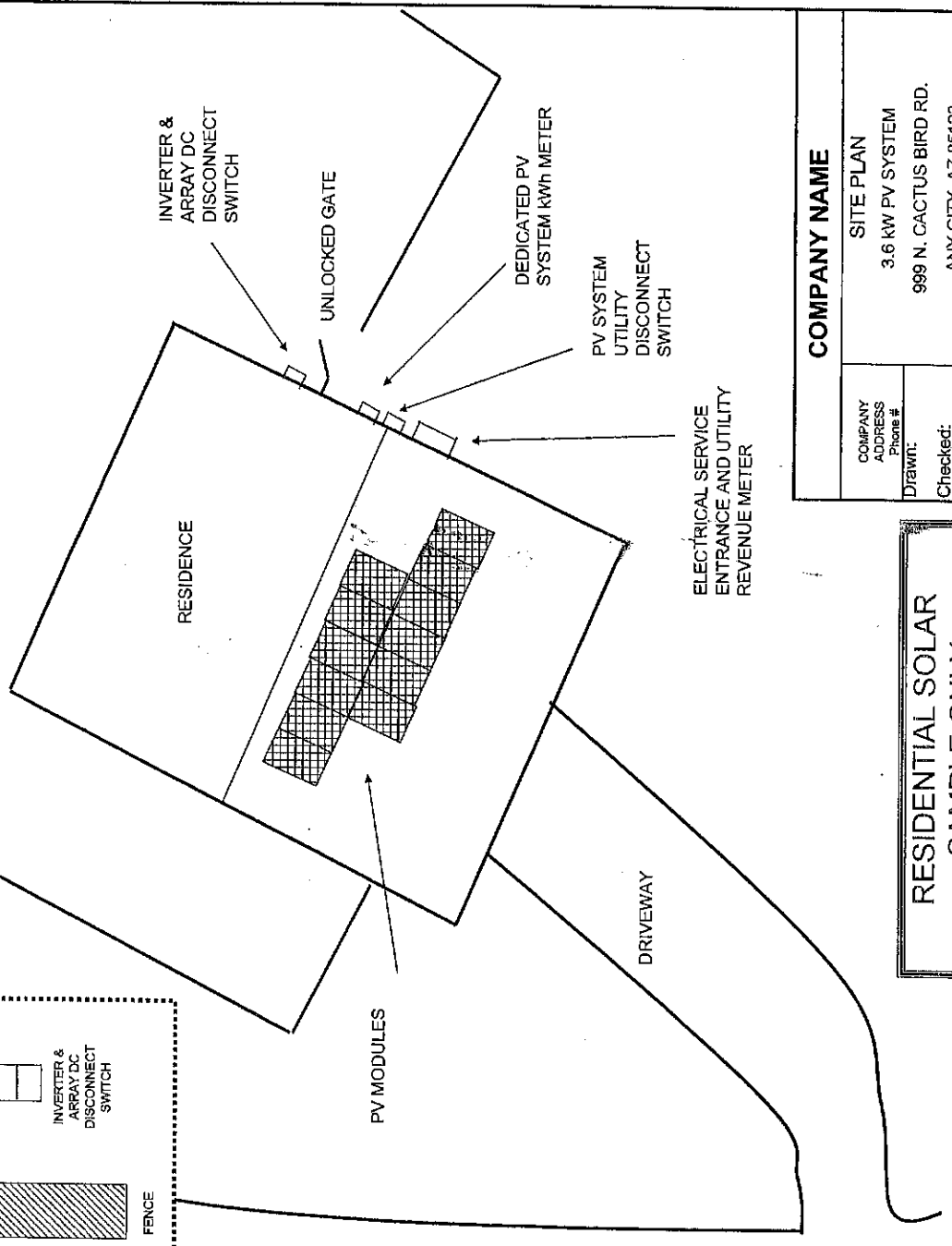
By: \_\_\_\_\_  
Signature (Spouse – Residential Only)

Name: \_\_\_\_\_/Customer  
Print Name (Spouse – Residential Only)

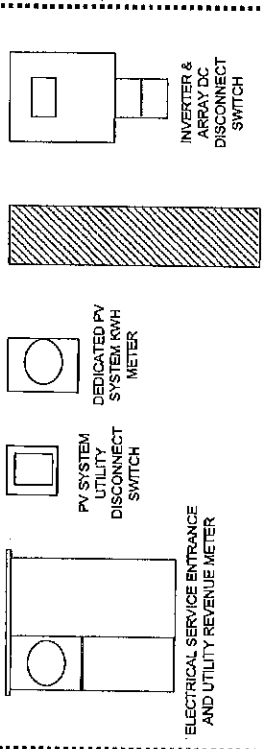
Date: \_\_\_\_\_



This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is only to illustrate typical minimum information required at time of application to APS. Additional information may be required.



**EQUIPMENT LAYOUT**

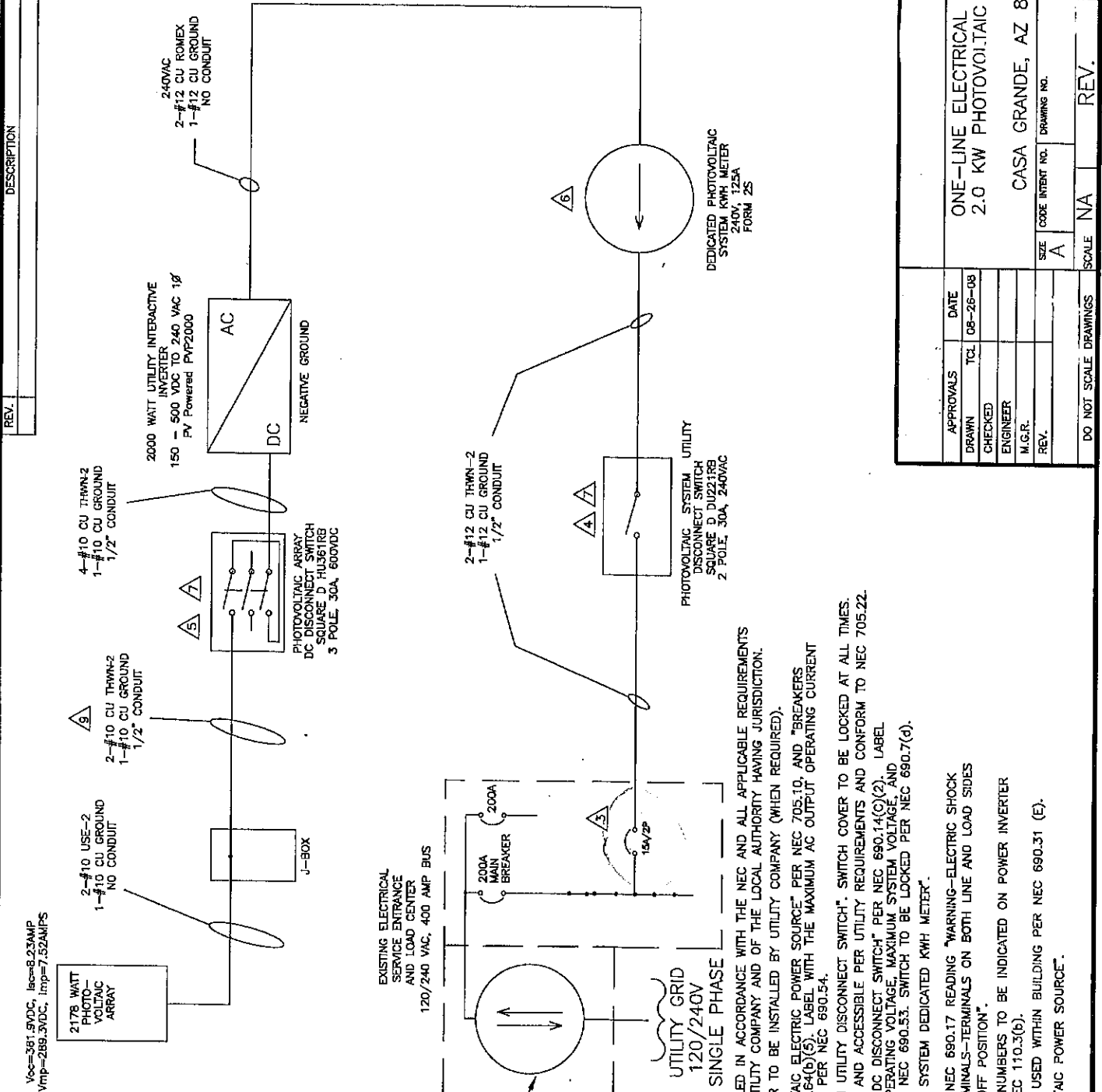


**NOTE:** UTILITY HAS 24-HR UNRESTRICTED ACCESS TO UTILITY DISCONNECT SWITCH AND kWh METER(S)

<b>COMPANY NAME</b>	
SITE PLAN	
3.6 kW PV SYSTEM	
999 N. CACTUS BIRD RD.	
ANY CITY, AZ 85123	
Checked:	Date
Scale	Sheet
NONE	0000-0000
5 of 5	A
4-28-2008	

**RESIDENTIAL SOLAR  
SAMPLE ONLY**

DESCRIPTION



- NOTES:
1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
  2. BI-DIRECTIONAL UTILITY METER TO BE INSTALLED BY UTILITY COMPANY (WHEN REQUIRED).
  3. LABEL BREAKER "PHOTOVOLTAIC ELECTRIC POWER SOURCE" PER NEC 705.10, AND "BREAKERS ARE BACKFED" PER NEC 690.64(b)(5). LABEL WITH THE MAXIMUM AC OUTPUT OPERATING CURRENT AND THE OPERATING VOLTAGE PER NEC 690.54.
  4. LABEL "PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED AT ALL TIMES. SWITCH TO BE VISIBLE BLADE AND ACCESSIBLE PER UTILITY REQUIREMENTS AND CONFORM TO NEC 705.22.
  5. LABEL "PHOTOVOLTAIC ARRAY DC DISCONNECT SWITCH" PER NEC 690.14(C)(2). LABEL WITH OPERATING CURRENT, OPERATING VOLTAGE, MAXIMUM SYSTEM VOLTAGE, AND SHORT CIRCUIT CURRENT PER NEC 690.53. SWITCH TO BE LOCKED PER NEC 690.7(d).
  6. LABEL "PHOTOVOLTAIC POWER SYSTEM DEDICATED KWH METER".
  7. PROVIDE WARNING SIGN PER NEC 690.17 READING "WARNING-ELECTRIC SHOCK HAZARD-DO NOT TOUCH TERMINALS-TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OFF POSITION".
  8. LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON POWER INVERTER AND SOLAR MODULES PER NEC 110.3(b).
  9. METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31 (E).
  10. LABEL BREAKERS "PHOTOVOLTAIC POWER SOURCE".

APPROVALS	DATE
DRAWN TCL	08-26-08
CHECKED	
ENGINEER	
M.G.R.	
REV.	

DO NOT SCALE DRAWINGS

SCALE NA

REV. \_\_\_\_\_

SHEET 1 OF 1

ONE-LINE ELECTRICAL DIAGRAM  
 2.0 KW PHOTOVOLTAIC SYSTEM

CASA GRANDE, AZ 85294

SIZE CODE INTENT NO. DRAWING NO.  
 A