# City of Banning Electric Utility

## Self-Generating Facility Application for Residential Photovoltaic Systems

**Customer Information**

Name (As it appears on the Utility Bill)

| | Banning, | CA | 92220 |
|---|---|---|---|
| Installation Address of System | City | State | Zip Code |

Phone Number | Customer Account Number **(Required)** | E-mail address **(Required)**

**Retailer/Seller (seller of solar photovoltaic equipment) Information**

Name of Company | Address | Federal Tax ID No.

Business Phone | Purchase Date | Seller e-mail address

**Installer Information**

Name of Company/Contractor | Address | Federal Tax ID No.

Business Phone | Contractor License Type & Number | Installer e-mail address

**Generating System Information**

PV Module Manufacturer_____ PV Module Model # _____ Quantity _____

STC Power rating per Module_____ Watts Total Model Output_____ Watts

Projected Annual kWh Output _____ Watts (Number of modules x STC rating per module)

Inverter Manufacturer_____ Inverter Model Number _____

System Rated Output_____ Watts (CEC A/C) Number of Inverters_____

Array Tilt (degrees) _____ Array Azimuth (degrees) _____ Mounting Method _____

Energy Storage Manufacturer_____ Model_____

Quantity_____ Power Rating per Module_____ Total Power Rating_____

The undersigned declare under penalty of perjury that the information provided and stated in this form is true and correct to the best of my knowledge, that the above-described self-generating system is intended primarily to offset part, or all of the electrical needs at the site of the installation, and the **required contributions in aid of construction of $500.00 is paid at the time of submission**. I understand and agree that the choice of improvements, the selection of contractors, the purchase of items and acceptance of materials used and work performed, and the payments thereof, is my responsibility. I understand that the City of Banning does not endorse, recommend or make any representations as to specific brands, products, contractors or dealers; nor does it guarantee material or workmanship. I also agree to allow the City of Banning Public Utilities to access my premises for verification purposes.

_____ _____

Applicant (Customer) Signature Date

For office use only:

Check / Money Order #: _____ Project #: _____

Date received: _____ Date Approved: _____

_____ _____

Signature (Public Benefits Coordinator) Date

# City of Banning Electric Utility

Self-Generating Facility Calculation Worksheet for Residential Photovoltaic Systems

## PV Module Information

Provide Complete information

1. PV Module Manufacturer _____

2. PV Module Model # _____

3. PV Module Quantity _____

4. PV STC Power Rating per Module _____

5. Total Module Output (STC Rating x Quantity) _____

6. Projected Annual kWh Output _____

## Inverter Information

Provide Complete information

1. Type of Inverter used ☐ Central Inverter ☐ Micro-Inverter

2. Inverter Manufacturer _____

3. Inverter Model # _____

4. Inverter Quantity _____

5. PV Module Quantity per Inverter _____

6. System Rated Output (EPBB Calculation - CEC A/C Value) _____

7. Maximum Inverter Output Current _____

## Inverter Output Conductors & PV Breaker Sizing

1. Maximum AC Output Current _____
(Inverter Quantity x Max Inverter Output Current x 125%)

2. Inverter Output OCPD Rating (PV back feed breaker) _____
*PV Back feed breaker must be rounded to next available size per Table 1

3. Inverter Output Circuit Conductor size _____

| Table 1. Minimum Inverter Output OCPD and Circuit Conductor Size | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Minimum OCPD (Breaker) Size** | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 |
| **Minimum Conductor Size (AWG) at 90° C, Copper** | 14 | 12 | 10 | 10 | 8 | 8 | 6 | 6 | 6 |

## Point of Interconnection

*Only Load Side Connections are permitted
*The PV Back feed breaker MUST be positioned furthest from the input feeder or Main Breaker location
* The maximum combined PV back feed breaker and Main breaker cannot exceed 120% of the bus bar rating (Reference Table 2)

1. Current Main Service Panel Bus Rating _____ A

2. Current Main Service Panel Main Breaker Size _____ A

3. Will the Main Service Panel be Upgraded? ☐ Yes ☐ No

4. If Yes, have you completed the Main Service Panel Change Out/Upgrade Questionnaire? ☐ Yes ☐ No

5. Proposed New Electric Service Panel Bus Rating _____ A

6. Proposed New Electric Service Panel Main Breaker Size _____ A

7. If No, will the current main breaker be De-rated*? ☐ Yes ☐ No

***De-rating of the Main Breaker requires Electrical Load Calculations to be submitted for justification and MUST be approved by City of Banning Electric Utility. City of Banning Electric Utility MUST be scheduled to disconnect service for approved de-rating of the main breaker.**

| **Maximum Combined Supply OCPDs based on Bus Bar Rating** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Bus Bar Rating** | 100 | 125 | 125 | 200 | 200 | 200 | 225 | 225 | 225 |
| **Main Breaker Size*** | 100 | 100 | 125 | 150 | 175 | 200 | 175 | 200 | 225 |
| **Maximum allowable PV back feed breaker size combined with Main breaker at 120% of Bus Bar Rating** | 20 | 50 | 25 | 90 | 65 | 40 | 95 | 70 | 45 |