



# Residential Interconnection Application

## SECTION ONE: General Information

**Who must complete this Application?** All customer-generators (Customer) installing a distributed generation (DG) system in parallel with Roseville Electric Utility's (Utility) electric service. For assistance with this form contact Your Trusted Solar Advisor at solar@roseville.ca.us or 916-774-6937.

The design and operation of a DG system shall comply with Roseville Electric Utility's [Rule 21](#), [building code standards](#), applicable state and local laws, and requirements of the City of Roseville.

The 12-month kWh production of the DG system can not exceed 100% of the Customer's most recent 12-month kWh energy usage total. If 12 months of historical energy use is unavailable, the maximum estimated annual production of the DG system can not exceed 3 kWh per square foot of conditioned space. Customers can obtain their usage history online at [www.roseville.ca.us/billpay](http://www.roseville.ca.us/billpay)

Submit this form **before** applying for a building permit from the City of Roseville.

Customer Information		
Name (as it appears on electric bill)	Roseville Electric Utility Service Account #	
Installation Address (street and zip)	Telephone	E-Mail
DG System Installer/Contractor		
Name of Company	Telephone	
Mailing Address	City of Roseville Business License #	Contractor's License #
Representative Name	Representative Telephone	Representative E-Mail
DG System Installation Type	Initial Applicable Type	
A new DG system installation on an existing home.		
Changes to a previously approved and interconnected DG system (such as installing additional solar panels). (Customers on net metering who wish to retain their rate are restricted to a system expansion of less than 10% of the system's annual kWh production).		
New home construction with a new interconnected DG system.		

## SECTION TWO - Roseville Solar 2.0

- For all new DG systems (and existing systems expanding more than 10%) a Roseville Solar 2.0 multi-register revenue meter shall be installed. The Roseville Solar 2.0 meter is capable of measuring both the Customer's kWh consumption from the Utility's electric grid, and the excess energy produced by the DG system that is sent back to the electric grid.
- The cost for the Roseville Solar 2.0 meter upgrade is the responsibility of the Customer and shall be collected as part of the project permit process with the City of Roseville.
- Do not** turn on the system until the Permit To Operate email is received and the multi-register meter is installed. Failure to do so may result in fines to the Customer.

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**SECTION THREE – Equipment Information**

Is there an existing DG system at this location?    YES                       NO

If YES - the array plan and single line diagrams must clearly indicate the details of the existing system.

**AC Disconnect Switch:**

A visibly open, manually operated, and lockable AC disconnect switch must be installed within five feet of the point of interconnection (as detailed in Roseville Electric Utility's Rule 21 and the building code construction standards).

**Inverters Interconnected to Roseville Electric Utility:**

Inverters and micro-inverters must be on the California Energy Commission (CEC) list of [approved inverters](#).

**Solar Panels:**

Solar/photovoltaic (PV) panels must be on the California Energy Commission (CEC) list of [approved solar panels](#).

Distributed Generation System Information		
Number of Photovoltaic Panels	CEC-AC Rating (from CSI-EPBB report)	Annual kWh (from CSI-EPBB report)
Customer's 12 Month Energy kWh Usage Total <i>or</i> Square Footage of Conditioned Space (if less than 12 months of history)		

Is a battery being installed?    YES                       NO

If yes, complete the following:

Battery Manufacturer	Model Number	Continuous kW	Peak kW	Capacity kWh	Number of Batteries

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## SECTION FOUR – General Requirements for Interconnection

### INTERCONNECTION

Contractors and Customers should read Roseville Electric Utility's [Rule 21](#), the City of Roseville's [Residential Construction Standards](#), and Roseville Electric Utility's [requirements](#). All systems installed in parallel to Roseville Electric Utility's distribution grid must meet Rule 21 requirements.

### Net Metering Rate

Net metering is no longer available to new DG interconnections or existing DG systems expanding by more than 10 percent.

### Roseville Solar 2.0 Rate

For all new DG systems, and existing systems expanding more than 10%, a Roseville Solar 2.0 multi-register meter shall be installed. The meter is capable of measuring the Customer's energy consumption from the Utility's electric grid, and the excess energy that the Utility receives from the Customer's DG system. All energy (kWh) delivered and received after the Customer's own instantaneous load shall be measured by the multi-register meter. Based on current rates, the Customer shall receive credit for the energy the Utility receives and a debit for the energy delivered to the Customer by the Utility. The electric meter shall remain accessible at all times.

### Permission to Interconnect

The Utility reserves the right to lock-off or disconnect the DG energy system from the Utility's system until Rule 21 compliance is met and the building inspector has approved the DG installation. The Customer may be subject to fines if the system is operated without an approved Residential Interconnection Application and a Permit to Operate.

### Safe Operation of a DG System

If at any time the Utility determines that the DG installation, or its operation, may endanger Utility personnel and/or endanger the safe and reliable operation of the Utility's electrical system, the Utility reserves the right to disconnect the DG energy system from the Utility's electrical grid. The system shall remain disconnected until the Utility is satisfied that the unsafe condition(s) have been corrected.

**The Customer (applicant) must initial each of the items below.**

I agree to abide by the terms set forth in this form, the Specification for Residential Construction, and Rule 21 for system interconnection with Roseville Electric Utility.

The contractor listed in this form is authorized by the Customer to receive confidential customer account billing and electric usage information pertaining to this installation, DG system location, size, and operational characteristics as requested in the course of this interconnection process. The Utility is granted permission to share information with authorized recipients for a period of three years from the date this agreement is received by the Utility.

The Customer must not operate their distributed energy system until they receive the Permit To Operate email from the Utility and the dual register meter has been installed.

The Customer authorizes the Utility to release to the California Energy Commission information regarding DG system size and operational characteristics, Customer's name, contact information, other personal information, and solar energy system location information as requested pursuant to the California Energy Commission's rules and regulations.

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## SECTION FIVE – Interconnection Compliance Process

The DG installation shall meet all applicable safety and performance standards established by the National Electrical Code, the Institute of Electrical and Electronics Engineers, and Underwriters Laboratories.

### Prior to Installation: Complete this application and submit it with the following documents:

1. **Layout Plan** – include the physical location of the visibly open, lockable AC disconnect switch, inverters and displays, solar panels, circuit breakers, energy storage devices, and other protective devices of the renewable energy system.
2. **CSI-EPBB Report of the DG System** (csi-epbb.com)
  - a. Verify the annual kWh generated is less than the Customer's 12 month usage history *or*
  - b. Verify the annual kWh generated is less than 3 kWh per sq ft of conditioned space (include the property report).
3. **Single-Line Diagram** – include the electrical rating and operating voltages of the primary electrical components such as the service panel, breakers, subpanels, and disconnect switches.

### Following Installation:

1. **Complete the Permit to Operate request form and submit it to the Utility** - If a change in the system occurs, and the final system does not exactly match the initial application, the contractor shall provide a description of the change and an updated Interconnection Application, array diagram, one-line diagram, and CSI-EPBB report.
2. **The Contractor shall Advise the Customer** - that the DG system may not be turned on, or operated, until a Permit to Operate email from the Utility has been received, and the multi-register meter installed. Operation prior to approval may result in the Customer being fined.



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**SECTION SIX – Terms and Conditions**

- A. The undersigned declares under penalty of perjury that:
  - The site installation is located within the service territory of Roseville Electric Utility.
  - The above described DG system is intended primarily to offset part or all of the Customer's electrical needs at the site of installation.
  - The contractor and Customer agree to abide by the terms set forth in this form, Specification for Residential Constructions, and Rule 21 for system interconnection with the Utility.
  - The contractor and Customer agree the selection of the equipment is their sole responsibility. Roseville Electric Utility makes no representation as to the safety, reliability and/or efficiency of the equipment selected or components thereof.
  - Roseville Electric Utility makes no warranty, whether expressed or implied, including warranty of merchantability of fitness for any particular purpose, use or application of the equipment.
  - The information provided in this form is true and correct to the best of their knowledge.
- B. I have read and understand and agree to abide to the program rules, requirements, and terms and conditions set forth in this Agreement.
- C. The information that I have supplied on this Agreement is true, correct and complete.
- D. I give permission to Roseville Electric Utility to discuss all aspects of this project with my DG vendor, energy consultant and HERS Rater.

## Required Contractor and Customer Signatures

Contractor/Business Name:
Name of Representative (PRINT):
Representative Signature and Date:
Customer Name (PRINT):
Customer Signature and Date:

**SECTION SEVEN - Document Submittal Contact Information**

Email the required documents and application to [solar@roseville.ca.us](mailto:solar@roseville.ca.us)

Or mail the documents and application to:  
 Roseville Electric Utility - Solar Interconnection Application  
 116 S. Grant Street  
 Roseville, CA 95678