

## SolarGenerations Rebate Program Policies and Procedures

Sierra Pacific Power Company (SPPC) and Nevada Power Company (NPC) ["Utilities"] both subsidiaries of Sierra Pacific Resources, offer the SolarGenerations Rebate Program (Program). SolarGenerations was created by the Utilities to implement the Solar Energy Demonstration Program (SEDP) and on July 1, 2007 replaced SEDP with the Solar Energy Systems Incentive Program (SESIP), in response to SB-437 passed by the Nevada State Legislature and further defined by the Order of the Public Utility Commission of Nevada (PUCN) dated January, 2008. SolarGenerations is designed to facilitate the installation of photovoltaic (PV) systems in the state of Nevada through subsidized rebates. This Program offers significant rebates on photovoltaic (PV) systems installed at customer premises within the Utilities' service territories.

### IMPORTANT:

- This Program is subject to change and has limited funding. Please consult [www.SolarGenerations.com](http://www.SolarGenerations.com) for the most up-to-date information and Program requirements.
- Only completed applications will be accepted.
- Approved applications will receive a Rebate Commitment Letter/Authorization to Proceed. All other customers will receive either a letter detailing their Application being placed on the Waiting List or an explanation of why the application has been rejected. Customers may elect to complete their PV system after submitting their application to the SolarGenerations Rebate Program and confirmation of the pre-installation inspection required to participate in the Program. However, a rebate can only be paid for a system that becomes operational after September 4, 2008. Customers who begin construction before this date and/or prior to receipt of their Approval letter do so at their own risk. There is no guarantee that an application submitted to the Nevada Renewable Energy and Energy Conservation Task Force (who oversee the Program) will be approved. It is strongly suggested customers not purchase equipment or sign a binding contractor or consultant agreement until after receipt of the Rebate Approval Letter.
- To participate in the Program, you will be **required to sign a Net Metering Agreement**. A Net Metering Agreement allows you to offset your purchase of electricity with your own generated electricity, essentially making your meter run backwards. Your Utility will then only bill you the monthly customer charge and the net amount of electricity you use from its system. Net metering rules do not allow the Utility to pay you for more electricity than you consume, so proper sizing of your system is critical.

# 1. EFFECTIVE DATES FOR THE PROGRAM- APPLICATION AND PRENOTIFICATION REQUIREMENTS

Funding for the SolarGenerations Rebate Program is administered on a **first come, first serve basis**. The effective dates of the Program and application submittal requirements are as follows:

- PV projects are not guaranteed a rebate under the SolarGenerations Rebate Program prior to the Nevada Renewable Energy and Energy Conservation Task Force (Task Force) approval and a Rebate Commitment Letter/Authorization to Proceed has been issued to the customer designating the project address.
- The SolarGenerations Rebate Program is available for eligible projects, as defined by becoming active on the grid after July 1, 2009, except as allowed by the regulations that govern the Program.

## 2. REBATES AND CAPS

The SolarGenerations Rebate Program offers a cash rebate of \$2.30 per watt (W) for residential/small business customers and \$4.60 per watt for schools and public buildings, of rated alternating current (AC) electricity production on approved projects.

### 2.1 Rebate Calculation

The rebate will be calculated based upon the AC wattage (WAC) production of the PV array. The WAC is calculated using the following considerations:

- Per the California Energy Commission (CEC) Program list of eligible equipment (<http://www.gosolarcalifornia.ca.gov/equipment>), the following two components are used in the calculation of WAC:
  - PV module PV USA Test Conditions (PTC) wattage
  - Inverter efficiency at 75% of inverter capacity

- WAC is then calculated using the following equation (1):

$$(1) \text{ WAC} = \text{PTC wattage} \times \# \text{ of modules} \times \text{Inverter efficiency} \%$$

- The cash rebate is calculated for residential/small business rebates only using the following equation (2):

$$(2) \text{ Rebate} = \text{WAC} \times \$2.30 \text{ per WAC}$$

- The cash rebate is calculated for schools and public buildings rebates only using the following equation (3):

$$(3) \text{ Rebate} = \text{WAC} \times \$4.60 \text{ per WAC}$$

### 2.2 Rebate Funding Levels and Caps

Rebate funding levels are defined in Table 1.

**Table 1 – Residential/Small Business Funding Levels**

Beginning Date	Ending Date	Rebate Level
July 1, 2009	June 30, 2010	\$2.30 per WAC

**Table 1a – Schools and Public Building Funding Levels**

<b>Beginning Date</b>	<b>Ending Date</b>	<b>Rebate Level</b>
July 1, 2009	June 30, 2010	\$4.60 per WAC

Table 2 depicts the yearly rebate caps for residential customers, schools and other small business or public buildings:

**Table 2 – Project Caps**

	<b>Size of PV Array (kW)</b>	<b>Max \$ Rebate</b>
<b>Residential Customers</b>	5 kW	\$11,500
<b>Small Business Customers</b>	30 kW	\$69,000
<b>Schools</b>	50 kW*	\$230,000
<b>Public Buildings</b>	30 kW	\$138,000

\*Note: Schools may install systems up to 50 kW but may petition the PUCN to allow installation of a system larger than 50 kW if the school demonstrates a significant economic benefit from installing a larger system.

### 3. CUSTOMER ELIGIBILITY

The following rules pertain to customer eligibility for the SolarGenerations Rebate Program:

- Applicants must be an existing or new grid-connected customer of Sierra Pacific Power Company or Nevada Power Company, within the state of Nevada at the time of rebate.
- Customer's account must be active and current at the site of the installation or a new service application must be filed with the Utility if it is new construction.
- Customer must provide proof of their intention to complete their approved project within the time period allowed or risk being moved to the Waiting List or removed from the Program.

### 4. PROJECT ELIGIBILITY

#### 4.1 Size Requirements

There is no minimum size of PV system required. Customers of the SolarGenerations Rebate Program are eligible to Net Meter up to 1,000 kW but may only receive the rebates established by the Program. Contact the Net Metering Program (866) 786-3823 for more information. Maximum system size per meter allowed is 1,000 kW. Maximum size requirements for Program rebates are as follows:

- Residential customers – 5 kW
- Small business customers – 30 kW
- Schools – to be determined – 50 kW\*

- Public facilities – 30 kW

Rebates will only be paid for that portion of a system that does not exceed the aforementioned maximum size requirements.

Size requirements are specified on a per facility/campus/residence and per meter basis for each Program year. For example, a residential customer that has two different properties could be eligible for funding for up to a 5 kW system at each property and could then re-apply for another rebate for the same two properties in the next Program year, participating up to the net metering limits.

## 4.2 Equipment Specifications

A complete PV system installation is defined as a having a PV array, inverter, generation meter socket, grid interconnection and AC and DC disconnects. The SolarGenerations Rebate Program specifies the eligible equipment for the PV modules, inverter, and generation meter socket. The equipment list for PV modules and inverters is provided by the CEC's Emerging Renewables Program (ERP) certified equipment list.

This list can be found on the following website: <http://www.gosolarcalifornia.ca.gov/equipment>.

If a product is removed from the CEC list after approval of application, the product will remain eligible for the applicable project only.

### Generation Meter Socket

The Utility is required to install a Generation meter after project installation. The customer and/or his contractor are responsible for installing the meter socket that complies with Utility Standards for the Generation meter with the installation requirements as follows:

- ANSI Standard 4 Jaw socket
- 120/240 Volts
- 100 amps or 200 amps depending on system size (May be larger on small business, school or public building projects)
- Single phase three wire
- UL Listed, NEMA 3R
- Ring Design
- No by-pass mechanism
- AC disconnect and Generation meter socket must be located with 10 feet of the Revenue Meter

The Net Metering Design Standards are available for download from the Program website in under the Contractors' Corner icon.

## 4.3 Siting Requirements

Siting a PV system requires many considerations. The most prominent constraint is space and an unobstructed south facing location. Sometimes the ideal location for a system is not the best for producing the maximum output of electricity. The importance in producing peak output during periods of Utility peak loads<sup>1</sup> should be considered.

The three major factors in determining output amount are:

- (1) Orientation: Tilt and azimuth or compass direction. Compass direction indicates magnetic south. For "true" solar south compass directions must be corrected  $\pm 14^\circ$  for Las Vegas and  $\pm 17^\circ$  for Reno. For west of South, add the correction; east of South, subtract.

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<sup>1</sup> Summertime Utility peak load periods typically occur between the hours of 1 p.m. and 7 p.m.

(2) Shading

(3) System wiring and inverter/controller programming

Sierra Pacific Power Company or Nevada Power Company will not inspect the wiring, connection to the structure or other code related requirements. The Program requires a "signed-off building permit prior to inspection by the Utility inspector.

The siting of a system will be required to meet the standards set forth in this document. Finally, the location of the inverter is a factor in PV system production. Efficiency diminishes substantially when inverters are subjected to heat. It is advised to locate the inverter in a shaded northerly location or inside a garage or other structure. Direct sunlight is not advised.

Requirements	Recommended
<b>Wiring</b>	
No recommendations or requirements are provided. We highly recommend that the installer be familiar with NEC 690 and good installation practices. The wiring greatly contributes to the performance of a PV system.	
<b>Shading</b>	
The application may be rejected if the total annual production of the PV array is reduced by more than 25% relative to an unshaded array.	Shading plays a major role in decreasing the output of a system. PV panels should be exposed to the sun's rays for most or all of the day, with minimal or no shadows from trees, chimneys or cables between 9 a.m. and 4 p.m. To determine actual shading effects, it is recommended to have a good understanding of the percent of shading of the location throughout the year. A contractor should perform a shading analysis to determine how surrounding objects affect PV output (if applicable). This calculation can provide a percent reduction in output as compared to an unobstructed system in that latitude and angle of inclination and orientation. Systems determined to have shading may be required to submit a shading analysis prior to receiving approval.
<b>Orientation<sup>2</sup></b>	
There must be a location on the property for a system facing +/- 90° true solar South.	Ideally, a system should be sited at +/-15° of true solar South.
<b>Tilt</b>	
No Requirement	Ideal tilt angles for fixed arrays are: For Las Vegas, between 36° and 51°; For Reno, between 39.5° and 54.5°.
<b>Inverter Location</b>	
Inverter should be installed according to manufacturer's recommendations.	It is recommended that the inverter be installed out of the sun. For low voltage (48V or less) inverters, it is recommended to minimize the distance from the PV array to the inverter.

## 4.4 New vs. Old Equipment

All equipment installed **must be new** to be eligible for a rebate under the SolarGenerations Rebate Program. This must be evident in the documentation (invoices) required by the Program.

## 4.5 Renewable Energy Credits

The signed Net Metering Agreement<sup>3</sup> transfers all the Portfolio Energy Credits (PECs) or Renewable Energy Credits (RECs) to Sierra Pacific

<sup>2</sup> Compasses report magnetic south, +/-14° for Las Vegas and +/-17° for Reno. For west of South, add the correction; east of South, subtract.

<sup>3</sup> A copy of these agreements can be found at [www.SolarGenerations.com](http://www.SolarGenerations.com).

Power Company or Nevada Power Company. For an explanation of PECs and RECs, please refer to the definitions section at the end of this document.

## 4.6 Contractor Requirements

Electrical contractors must be licensed in the state of Nevada with a C-2 or C-2g license. Experience in, or certification for PV installation is recommended. SPPC and NPC will hold contractor workshops to educate contractors on the SolarGenerations Rebate Program policies and procedures as set forth in this document.

In addition, a list of contractors and equipment suppliers who have expressed interest in the Program<sup>4</sup> can be viewed on the SolarGenerations website at the following address: [www.SolarGenerations.com](http://www.SolarGenerations.com).

In addition, contractor training sessions will be held periodically during the Program continued on a regular and as needed basis. Scheduled training sessions are posted on the Program website. The trainings will cover the technical aspects and recommendations surrounding the application of PV installations, including siting, equipment specifications and installation requirements. Contractors who complete the training may request to be included on the "Contractor's List" located on the SolarGenerations website.

## 4.7 Additional Requirements

The following are additional requirements that must be taken into consideration when applying for a rebate under the SolarGenerations Rebate Program:

- System must be installed by a Nevada state licensed C-2 or C-2g contractor (Application must include a copy of contractor license #)
- Completion of Net Metering Agreement (two signed copies)
- The inverter must be listed on the California Energy Commission (CEC) web site, UL Listed for grid-interactive operation and anti-islanding (but isolated if grid power is lost)
- Solar Modules must be listed on the CEC web page<sup>5</sup>
- Install **accessible**, externally operable, lockable, **visible** blade AC disconnect switch within 10 feet of the Utility Revenue Meter. The Net Metering – Design Standard is available for download from the website. This document specifies requirements of meter and disconnects installation. The Net Metering Standard is not all inclusive of Standards that may be applicable.
- Utility may install (at its own expense) additional monitoring of the new PV system with the agreement of the customer. Systems must meet warranty requirements:
  - Photovoltaic Modules – 20 years
  - Inverters – 7 years
  - Labor (Labor and Workmanship as defined by the Nevada State Contractors Board) – 2 years

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<sup>4</sup> Sierra Pacific Power Company (SPPC) and Nevada Power Company (NPC) makes no guarantees or warranties, whether expressed or implied, for either contractor's performance or expertise in designing and installing photovoltaic systems. SPPC and NPC Companies are not associated with and do not have a business interest in any of these contractors. SPPC and NPC do not attest to their authority, competency, or integrity. SPPC and NPC require participants to work with Nevada state licensed contractors and to work under the terms of a contract.

<sup>5</sup> Modules or inverters that are listed on the CEC web page at the time of the application and subsequently removed will be allowed during the current Program year for the specific project noted in the application.

- The SolarGenerations team may conduct pre or post installation inspections at up to 100% of the project sites
- PV rebates under the SolarGenerations Rebate Program may not be used in conjunction with any other SPPC or NPC Programs
- Customer must have an account in good standing to receive rebate money
- Systems may not go online until the Utility sets the meter. However, a system test may be conducted using a UL listed jumper or customer provided UL rated meter.

## 4.8 Projects NOT Eligible for Rebates

The following projects are **not** eligible for a rebate under the SolarGenerations Rebate Program:

- Installations operating prior to the Program application launch date
- Solar thermal systems
- Off-grid installations
- Non Sierra Pacific Power Company/Nevada Power Company customers
- Customers outside the state of Nevada
- Systems that utilize equipment not on the list of eligible equipment
- Systems that are rated beyond 30 kWAC\*
- Installed PV systems that do not meet Utility Standards or appropriate building codes
- Rebates will not be paid for that portion of the system output that exceeds the yearly Program cap or systems larger than 30 kWAC\*.

\*Note: Schools may install systems up to 50 kWAC but may petition the PUCN to allow installation of a system larger than 50 kWAC if the school demonstrates a significant economic benefit from installing a larger system.

## 5. HOW TO APPLY

### 5.1 Program Steps

Here are the basic steps in participating in the SolarGenerations Rebate Program.

**Step 1:** Complete the online application or download the Getting Started Information.

The Getting Started Information may be downloaded from the "Get Started Here" page. Just select residential, small business, public buildings or schools. A hard copy can be requested by calling 866-PV-NEVADA (1-866-786-3823) or emailing [info@SolarGenerations.com](mailto:info@SolarGenerations.com).

**Step 2:** Complete the Application Form, Site Pre-Inspection Form, and Site Sketch online with technical information provided by your Nevada licensed C2 or C2g electrical contractor.

**Step 3:** Submit the Application using the online form and hit the submit key. The application may also be printed for mailing or downloaded and completed by hand (write legibly) and then submitted to:

[Info@SolarGenerations.com](mailto:Info@SolarGenerations.com)

Fax: (775) 834-5514

Sierra Pacific Power Company  
SolarGenerations Rebate Program  
6100 Neil Road M/S S2A35  
Reno, NV 89511

- OR -

Nevada Power Company  
SolarGenerations Rebate Program  
6226 West Sahara Ave. M/S S2A35  
Las Vegas, NV 89151

**Step 4:** All applications are reviewed by the SolarGenerations Program Administrator.

**Step 5:** You will receive a written Authorization letter which provides conditional approval pending confirmation of the project moving forward by copy of a contract with a Nevada Licensed electrical contractor or, a letter informing you that you are on the Waiting List.

**Step 6:** Upon verification the project is moving forward by copy of a signed contract, customer will receive final rebate commitment and tracking ID number.

**Step 7:** If approved, contract with a qualified Nevada (C-2 or C-2g) electrical contractor to install the PV system. Contractors are **required to submit a one line electrical diagram** to the Program Administrator for review and approval prior to the start of construction for all small business, school and public building projects.

**Step 8:** Inform the SolarGenerations Program Administrator that your project is completed by calling 866-786-3823, fax 775-834-5514, or email to [info@SolarGenerations.com](mailto:info@SolarGenerations.com). Send the final documentation to the SolarGenerations Rebate Program Administrator. This includes a "signed-off" building permit, invoice from your contractor (consisting of cost of labor and materials including equipment make and model), Voltage Verification and Application Change Order Form (if applicable).

**Step 9:** The Utility will complete a safety and meter socket inspection and have you execute the Net Metering Agreement specific to your system. To receive the rebate, you are required to sign and return the executed Net Metering Agreements. If your PV system meets all Utility Standards, the representative will schedule the installation of the bi-directional (revenue) meter and Generation meter (see the Utility Standards for more information on meters). Once the new meters are set you are ready to energize your new PV system!

**Step 10:** After successful verification of the installation and receipt of the executed Net Metering Agreements, the rebate check will be mailed within 60 days. Systems that exceed the Program cap can only receive the rebate up to the maximum amount noted on the Approval Letter. Acceptance of the rebate assigns all RECs derived from operations of the rebated PV system to the Utility. Customers with systems that exceed the cap or the original kWAC noted on the application assign all RECs generated by their system to the Utility.

#### **Still have questions?**

E-mail: [info@SolarGenerations.com](mailto:info@SolarGenerations.com)

Phone: 866-786-3823

## **5.2 Discrepancies**

If it is determined that there are differences from the SolarGenerations Application Form and our on-site analysis, the participant will receive a letter detailing these findings. This letter provides an opportunity for the applicant (or assigned contractor) to dispute the inspection results. After a period of 10 days, if the customer does not dispute the findings, the revised rebate levels will be confirmed.

## **5.3 Changes after Application Approval**

### **5.3.1 Variances to Utility Standards**

Customers who request consideration of an exception to a Utility Standard in order to participate in the SolarGenerations Program must follow the procedure below or risk being withdrawn from the Program and forfeiting the SolarGenerations incentive.

- Any request for an exception to either the Sierra Pacific Power or Nevada Power Company Standards must be done writing at least 30 calendar days prior to the start of construction.
- Applicants must have received an approval letter stating acceptance into the Program and noting the size of system in kilo-watts (kW) and confirming the rebate amount.

### **5.3.2 Submittals must include the following**

For residential customers, the stamped request must be submitted by either, the Nevada licensed electrical contractor or Nevada licensed electrical professional engineer including company name, address, contact phone, email and license number. All drawings shall reference either the contractor or engineer's name and license number.

The submittal will include a written description of the request, the applicable Utility Standard and the reason for requesting the exception along with an estimated cost of not complying with the Standards.

### **5.3.3 Information that must be submitted**

### For Residential:

Submit a detailed site drawing with dimensions showing actual existing conditions and proposed exception. Drawings must be submitted by the electrical contractor (or electrical engineer) who is completing the installation and must provide an accurate depiction of the actual existing conditions including the location of the home on the property, the location of the array, inverter, existing service entrance panel (existing meter), proposed location of the generation meter and AC Disconnect location (if location does not comply with the Net Metering Standards) and any other information that will allow for a clear understanding by the Utility of the requested variance.

### For Small Business, School or Public Buildings:

Submit a detailed site and one-line electrical drawing with dimensions showing actual existing conditions and proposed exception. Drawings must be submitted by the electrical engineer who is responsible for the design and engineering of the PV systems and must provide location of main building, existing meter, generation meter PV array, inverter, existing service entrance (existing meter), proposed location of the generation meter and AC Disconnect location (if location does not comply with the Net Metering Standards) and any other information that will allow for a clear understanding by the Utility of the requested variance.

Any proposed changes to an approved application must be submitted to the Program on an Application Change Form. This form is available for download at [www.SolarGenerations.com](http://www.SolarGenerations.com). In addition the customer or contractor must submit digital photos of the existing condition that warrants consideration.

\*Note: Any change cannot cause the project to exceed the approved project size and rebate. Customers who install systems that exceed the cap or the original kWAC noted on the approved application assign all RECs generated by their system to the Utility. Systems that decrease the output of the system will receive a rebate calculated by the smaller system output. All RECs, including those generated by the change in equipment, will transfer to the Utility.

The following items may be submitted for change:

- Customer changes contractor
- Changes in equipment as long as new equipment is listed on the CEC List of Eligible equipment.
- Rebate assignment
- Change in completion date
- Changes in location of equipment (array, inverter).

In addition to the Change Form, the contractor must submit a revised site drawing (downloaded from [www.SolarGenerations.com](http://www.SolarGenerations.com)) with PV equipment, Disconnect and Generation meter clearly noted.

Changes in location of Disconnect or RECs meter: In addition to the Change Form, the contractor must submit a revised site drawing (downloaded from [www.SolarGenerations.com](http://www.SolarGenerations.com)) with PV equipment, Disconnect and Generation meter clearly shown including dimensions to clearly denote the requested change. All such requests must be approved by the Utility in writing before customer proceeds with the installation. Drawings must be clearly legible and show all existing conditions. It is preferred all drawings are submitted electronically. All drawings become the property of Sierra Pacific Power Company or Nevada Power Company and a written response including approval of the change (if applicable) will be emailed or mailed to the customer.

## 5.4 Inspections

In addition to local building department inspection, SolarGenerations Rebate Program inspections will be conducted. Pre and post installation inspections may be conducted at up to 100 % of the project sites to determine compliance with Program requirements. Additionally, a Utility Safety Inspection will be conducted at each site prior to final approval, replacing and/or setting of the new meters and operation of the system. All inspections must result in satisfactory approval prior to final approval of the project. General inspection procedures are detailed below:

### 5.4.1 Pre-Installation Inspection

The SolarGenerations' pre-installation inspections are for compliance only with the Program rules. Systems that do not meet current local building codes or Utility Standards must be corrected to meet the current codes and Standards. The pre-installation inspection should not be construed to be an inspection for compliance with building codes and Utility Standards. The pre-installation inspection may include the

following:

- Observation and photographs of the structure and proposed project
- Project street location and address
- PV array anticipated location
- Proposed inverter location
- Shading observation (a "Solar Pathfinder" or equivalent) measurement may be recorded to determine shading coefficient
- Orientation of PV array
- Available space at the existing meter for placement of the required Generation meter socket and AC disconnect
- Other items as necessary to confirm project adheres to Program rules

Any deviation(s) from Program requirements discovered at the pre-installation inspection will accompany a list of recommendations for correcting noted deficiencies. Re-inspection may be required prior to issuing a Rebate Commitment and Authorization to Proceed letter from SolarGenerations. Customer may be required to provide evidence from performing a solar shading analysis to verify compliance with minimum standards for shading.

### 5.4.2 Post-Installation Inspection

The SolarGenerations' post-installation inspection may include the following:

- Observation and verification of project installation
- Compliance with application, site drawing and one-line electrical drawing (if applicable)
- Verification of quantity, specification and orientation of PV modules
- Verification of inverter model, quantity, specification and placement
- Photographs of completed installation specifically the Generation meter socket, AC Disconnect, Revenue meter and array

Any deviation from Program requirements or approved design discovered at the post-installation inspection will accompany a list of recommendations for correcting noted deficiencies. Re-inspection may be required prior to issuing a request for Safety Inspection.

### 5.4.3 Utility Safety Inspection

Safety inspections will include the following checks:

- AC Disconnect and Generation Meter Socket are located within 10 feet of the Revenue Meter  
AC Disconnect is accessible, lockable, visible-blade type, and is manually operated from outside the enclosure
- AC Disconnect operates properly
- Generation meter and AC Disconnect are wired correctly to meet Utility Standards
- Generation Meter Tag is installed (by Utility)
- AC Disconnect Tag is installed properly (by Utility)
- Revenue Meter Tag is installed
- Transformer Tag is installed properly, if applicable (by Utility)
- Meet all applicable Utility Standards, (such as meter height between 48' and 75")

Meters can be set and system energized only after all required inspections have been completed and approved.

## 5.5 Forms

The following forms will be required during the rebate application process.

### 5.5.1 SolarGenerations Application Form

The SolarGenerations Application acts as the enrollment form for the Program funds. The form will provide details on the proposed PV system and provide a basis for the inspection.

### 5.5.2 Site Pre-Inspection Form and Site Sketch

The Site Pre-Inspection Form and Site Sketch provides detailed information about the proposed site for the PV system. The sketch should show the location of major PV equipment on the structure or site (if ground mount, then show the array relative to the building).

### 5.5.3 Net Metering Agreement

The Net Metering Agreement defines the rules for Utility and customers for operation of the PV system and the associated interconnection requirements. It also transfers the appropriate RECs to the Utility. The Net Metering Agreement will be mailed or hand delivered during the final inspection.

## 6. PAYMENT PROCESS

The SolarGenerations Rebate Program rebate will be paid directly to the designated assignee as directed by the applicant as noted on the assignment of rebate on application. The rebate will be paid within 60 days of the new PV systems connection to the electrical grid. Payment of the rebate is contingent upon a site inspection confirming compliance with Program rules, utility standards, and receipt of all required documentation including executed Net Metering Agreements (see Section 7).

If the customer's account for service with the Utility is more than 30 days in arrears, approval by the SolarGenerations Project Manager may be required before a rebate can be issued to the rebate assignee.

## 7. PROJECT DOCUMENTATION REQUIREMENTS

### 7.1 Project Application Requirements

Required documentation includes:

- SolarGenerations Application
- Site Pre-Inspection Form
- Site Sketch of proposed installation
- One-line electrical drawing (submitted by contractor after application approval and before start of construction as applicable for small businesses, schools and public buildings)

### 7.2 Final Documentation Requirements

Required documentation includes:

- Building permit signed-off by appropriate municipal authority

- Copies of electrical contractor's itemized invoice(s) including labor, material and equipment
- Application Change Form (as applicable)
- Voltage Verification Form
- Digital photos of the completed installation including PV array, inverter, AC disconnect and meter socket
- As-Built one-line electrical drawing (if applicable)
- Executed Net Metering Agreement

## 7.3 Invoice Requirements

The applicant must submit documentation of all project costs (including labor) to the SolarGenerations Program as part of the required final documentation.

Additional final documentation requirements include submittal of detailed invoices listing specific equipment, quantities, labor, supplies, and mark-ups as applicable. Location or business name on the invoice must be consistent with the application information.

System costs include: cost of labor, permits, sales tax, PV modules, inverters, any performance meter, meter socket, disconnect box, mounting or tracking structures, interconnection equipment, and other expenses associated with the project.

## 8. DISPUTE RESOLUTION

The SolarGenerations Rebate Program will take every possible step to ensure a high level of satisfaction with all aspects of the Program. However, if any problems or concerns should arise, we encourage you to contact SolarGenerations immediately at (1-866-786-3823) or by email at [info@SolarGenerations.com](mailto:info@SolarGenerations.com).

If the dispute cannot be resolved, contact John Hargrove, Senior Program Manager for Sierra Pacific Power Company and Nevada Power Company at 1-775-834-5580.

## 9. 1099 FILING AND REPORTING

The project costs paid by this Program (rebates) may have tax implications for applicants who participate in the SolarGenerations Rebate Program and receive a rebate. All applicants are encouraged to consult a tax professional. Applicants will be responsible for any tax liability imposed as a result of rebate payments.

## 10. DEFINITIONS

Alternating Current (AC): the current received by the Utility and the output from the inverter.

Applicant: a person who is applying to participate in the Solar Energy Systems Incentive Program (SESIP).

Category: means one of the categories of participation in the Solar Program as set forth in section 23 of SB-437.

Commission: the Public Utilities Commission of Nevada.

Direct Current (DC): the current produced by the photovoltaic array and the input to the inverter.

Disconnects (AC or DC): a breaker in a distribution panel or a fusible switch. Both may be required and Utility personnel must have access to this box.

Generation Meter: the display required for metering to indicate the system production in terms of kWh over time and will be provided by the Utility.

Grid: the distribution network of the Utilities.

Institution of higher education: 1) a university, college or community college which is privately owned or which is part of the Nevada System of Higher Education; or 2) a post secondary educational institution, as defined in NRS 394.099, or any other institution of higher education.

Inverter: a device that converts DC power from the PV array into AC electricity for use at the facility where the PV system is located. Only grid-interactive inverters are eligible for participation in the SolarGenerations Rebate Program. This type of inverter operates in parallel with the grid only when the Utility grid is available. In event of a power outage, the system is designed to disconnect from the grid until the Utility power is restored. This function is to provide protection for field personnel.

Multi-family: separately metered residences in a multi-unit complex.

Net Metering: the measuring of the difference between the electricity one buys from a Utility and the electricity produced using his or her own generating equipment. The electric meter keeps track of this "net" difference between the electricity generated on site and the electricity taken from the electric grid.

Owned, leased or occupied: any real property, building or facilities which are owned, leased or occupied under a deed, lease, contract, license, permit, grant, patent or any other type of legal authorization.

Participant: a person who has been selected by the Task Force to participate in the Solar Program.

Person: a public entity.

Photovoltaic (PV) array: PV modules electrically connected together creating an electrical supply circuit to power an inverter. Several PV modules can be attached together onto a panel; one or more panels make an array.

Photovoltaic (PV) module: the equipment that directly converts energy from the sun into DC electricity. The module can be made of several different types of solar cells. Common cell types are: Single Crystalline Silicon (Mono-Csi), Poly Crystalline Silicon (Poly-Csi), Amorphous Silicon (Asi), Cadmium Telluride (CdTe) and Copper Indium Diselenide (CIS). An eligible module must be UL listed and found on the California Energy Commission's website of eligible products.

Portfolio Energy Credit (PEC): a process of awarding, trading, tracking, and submitting credits as a means of meeting the Renewable Portfolio Standard for renewable energy. A PEC relative to this program represents one kilowatt hour (kWh) of renewable energy that is physically metered and verified. Per a Nevada law, the Utility must produce a certain amount of renewable energy per year. The PV systems installed under this Program will qualify for PEC for the Utility. Also see Renewable Energy Credits below.

Program year: the period of July 1 to June 30 of the following year.

Public and other property: any real property, building or facilities which are owned, leased or occupied by:

(1) A public entity;

(2) A nonprofit organization that is recognized as exempt from taxation pursuant to section 501(c)(3) of the Internal Revenue Code, 26 U.S.C. § 501(c)(3), as amended; or

(3) A corporation for public benefit as defined in NRS 82.021.

The term does not include school property. It includes, without limitation, any real property, building or facilities which are owned, leased or occupied by: a) church or b) benevolent, fraternal or charitable lodge, society or association.

Public Building: (As defined by the Nevada Revised Statute 203.119 "Commission of Act in a Public Building") any building owned by:

(1) Any component of the University and Community College System of Nevada and used for any purpose related to the system.

(2) The State of Nevada or any county, city, school district or other political subdivision of the State and used for any public purpose.

Public entity: a department, agency or instrumentality of the State or any of its political subdivisions.

PV USA Test Conditions (PTC): 20°C ambient temperature, 1000 W/m<sup>2</sup> solar intensity, and wind speed at 1m/s.

Rebate: the amount to be paid to the customer, contractor, or supplier (see Section P.2 for amounts) once the required project documentation has been approved.

Renewable Energy Credits (RECs): the process of awarding, trading, tracking, and submitting credits as a means of meeting the renewable energy requirements of the Renewable Portfolio Standards. A REC represents one kilowatt hour (kWh) of renewable energy that is physically metered and verified. Per Nevada law, the Utility must produce a certain amount of renewable energy per year. The PV systems installed under this Program will qualify for RECs for the Utility.

Renewable Portfolio Standard (RPS): a regulatory policy that requires the increased production of renewable energy sources such as solar, wind and hydro energies. It places an obligation on the Utility to produce a specified fraction of their electricity from renewable energy sources.

Residential Customer: a Utility customer served by a residential meter.

School property: any real property, building or facilities which are owned, leased or occupied by:

- (1) A public school as defined in NRS 385.007;
- (2) A private school as defined in NRS 394.103; or
- (3) An institution of higher education.

Small Business: (As defined by the Nevada Revised Statute 233B.0382 "Small Business") a business conducted for profit which employs fewer than 500 full-time or part-time employees.

Solar Pathfinder: a device used to assess the percent of time where shading is present at the location of measurement.

Solar energy system: a facility or energy system that uses photovoltaic cells and solar energy to generate electricity.

Solar Program: the Solar Energy Systems Incentive Program created by section 23 of SB-437.

Standard Test Conditions (STC): a module (cell) operating temperature of 25°C and 1000 W/m<sup>2</sup> solar intensity.

Task Force: the Task Force for Renewable Energy and Energy Conservation created by NRS 701.350.

True Solar South: the true cardinal direction for south. A compass points to the magnetic position but not to the true position. In determining the ideal position for an array, it is important to know the position in relation to True South. True South in Las Vegas is approximately 13° East of Compass South. True South in Reno is approximately 16° East of Compass South.

Utility: Sierra Pacific Power and/or Nevada Power Company

Utility Interconnection: the physical connection between the Utility grid and the customer generation. An Interconnection Agreement (or a Net Metering Agreement) is needed for a customer to have on-site electric generation connected to the Utility Grid.

## 11. CONTACT INFORMATION

- Toll-Free SolarGenerations Rebate Program Hotline: 1-866-PV-NEVADA (786-3823)
- Email Address: [info@SolarGenerations.com](mailto:info@SolarGenerations.com)
- Website: [www.SolarGenerations.com](http://www.SolarGenerations.com)

### Sierra Pacific Power Company or Nevada Power Company:

John Hargrove, Senior Program Manager  
1-775-834-5580