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## Part I – Introduction and Overview

### 1. Applicability

This *APPLICATION FOR INTERCONNECTING RESIDENTIAL OR SMALL COMMERCIAL NET ENERGY METERING CUSTOMERS WITH SOLAR OR WIND ELECTRIC GENERATING FACILITIES OF 10 KW OR LESS* (Application) applies to net metering electric rate schedule NM for residential or small commercial Customers who interconnect a solar or wind turbine electric generating facility, or a hybrid system of both, with a capacity of not more than 10 kilowatts that is located on the Customer's premises, and which operated in parallel with Silicon Valley Power's (SVP) transmission and distribution facilities, and is used primarily to offset part or all of a Customer's own electrical requirements

This Application also applies to changes to an existing, approved interconnection when: 1) the changes involve ownership of the Generating Facility; 2) physical changes are made to the Generating Facility, and/or 3) as otherwise directed by SVP.

**Customers must not interconnect their Generating Facility with SVP's distribution facilities until they receive written authorization from SVP. Unauthorized interconnections could result in injury to persons and/or damage to equipment and/or property for which the Customer may be liable.**

### 2. Application Package

In addition to this Application form, applicants must submit the documents described below to complete the application package. These additional documents are needed to ensure safe and reliable operation of SVP's distribution facilities and to confirm that Customer's interconnection has been performed in accordance with SVP requirements.

#### 2.1. Required Documents for New Applicants:

##### 2.1.1. COMPLETED APPLICATION

A complete copy of this **Application**. Please note: the name on the Application and all other documents described below must be the same name as on the SVP bill. SVP may only make changes to an account or service if authorized by the Customer of record.

##### 2.1.2. SIGNED AGREEMENT

A completed and signed copy of the *INTERCONNECTON AGREEMENT FOR NET ENERGY METERING FOR GENERATING FACILITIES OF 10 KILOWATTS OR LESS*.

### 2.1.3. SINGLE-LINE DIAGRAM

A **single-line diagram** showing the customer's actual installation of the Generating Facility. The diagram must include the electrical rating and operating voltages of the significant electrical components such as the service panel, the disconnect switch, inverters, all wind and/or photovoltaic generators, circuit breakers, and protective functions of the Generating Facility, the customer's loads, and the interconnection with SVP's distribution system. The diagram must also include the following information.

1. A description of the visible, lockable **disconnect switch** to be used between the interconnected Generating Facility and SVP's distribution system. The description must include the switch manufacturer, model number and switch capacity ratings (current and voltage). Note that the disconnect switch must be installed within 10 feet of the customer's service panel and in a readily accessible location where SVP personnel can operate the switch at any time. Disconnect switch must be the type approved by SVP.
2. A description of the specific DC to AC inverter(s) used to control the interconnection between SVP and the generating facility, including rating, brand name, and model number. Only California Energy Commission Certified inverters will pass the requirements for the **simplified interconnection application**. (See website at [http://www.consumerenergycenter.org/buydown/certified\\_inverters.html](http://www.consumerenergycenter.org/buydown/certified_inverters.html))
3. A complete description of the generating **equipment customer plans to install**. If the generating equipment includes solar photovoltaic panels, the description must include the manufacturer name, model number, number of panels, and the rating. If the generating equipment includes a wind-turbine, the description must include the manufacturer name, model number, number of turbines, and the rating. For all descriptions of equipment rating, use the nameplate rating found on the equipment or in the equipment specifications. Only California Energy Commission Certified solar photovoltaic panels and wind turbine generators will pass the requirements for the **simplified interconnection application**. (See website at [http://www.consumerenergycenter.org/buydown/certified\\_inverters.html](http://www.consumerenergycenter.org/buydown/certified_inverters.html))
4. A description of how the power output from the inverter is connected to the **main service panel's branch breaker**. The amperes rating of this branch breaker and also main service panel breaker must have the capabilities to carry output rating of generating facilities. Output rating is computed based on total nameplate rating of the inverter.

**2.1.4. PROOF OF HOME INSURANCE COVERAGE**

Proof of any existing home (liability and/or property) **insurance coverage** for the location of the schedule NM generating facility. Customers must provide SVP with a copy of declaration page of their insurance policy or other equivalent document acceptable to SVP. This coverage level must be maintained as long as the customer is interconnected to SVP's distribution system.

**2.1.5. PERMIT**

A copy of the final, signed, permit for customers generating facility.

**While the customer's application package will not be complete until SVP receives this document, customers should not delay sending all other Application materials to SVP.** Once SVP receives documentation described in section 2.1.1 thru 2.1.4 above, SVP will begin to process the application. As soon as SVP receives the approved permit, SVP will contact the customer to schedule an on-site inspection.

**2.2. Other Documents and/or Fees that *may* be required:**

**2.2.1. APPLICATION FOR SERVICE**

An application for electric service must be completed if this is a new service (for example if this is for a new house to be constructed).

**2.2.2. NON-STANDARD DC TO AC INVERTERS**

Applications with non-standard DC to AC inverters which do not meet the UL and IEEE requirements specified in SVP's standard SD1631, or customers whose aggregate generating facility capacity exceeds 15% of the peak load on the distribution line section as described in Screen 4 of standard SD1630 require a supplemental review which may entail a study, additional equipment, and/or other requirements.

Depending on the specifics of the planned Generating Facility, there may be requirements for interconnection in addition to the above list.

### 3. STEPS FOR INTERCONNECTION

#### **Step 1 – Submit required documents to Permit Center**

Complete this application and the other items described in section 2 above. Bring these documents, along with any required fees, to the Santa Clara Permit Center. SVP will review the application package to verify it meets all applicable standards and will advise the customer of its status.

#### **Step 2 – Schedule inspection once permit approved.**

Once the final Permit is approved, SVP will contact the customer to schedule an on-site inspection. If this inspection proves satisfactory, SVP will provide the customer with written authorization to interconnect.

#### **Step 3 – Wait for written authorization to connect from SVP**

Interconnect the generating facility only after receipt of written authorization from SVP.

**Customer must not interconnect their generating facility with SVP's distribution facilities until they receive written authorization from SVP. Unauthorized interconnections could result in injury to persons and/or damage to equipment and/or property for which the customer may be liable!**

### 4. Permit Instructions and Assistance:

When this application has been completed it should be brought, along with the required attachments and any applicable fees to:

Electric Department  
1500 Warburton Avenue  
Santa Clara, CA 95050-3796

For answers to questions or for assistance completing this application, please call (408) 261-5468 or e-mail [asaenz@siliconvalleypower.com](mailto:asaenz@siliconvalleypower.com).

**Part II – Identifying the Generating Facility’s Location and Responsible Parties**

**1. Customer’s Generating Facility Information** (Where will the Generating Facility be installed?)

Name shown on SVP service Account		Electric Account Number	
Street Address			
Santa Clara		CA	
City	State	ZIP	
Mailing Address			
City		State	ZIP
Business Phone	Home Phone	Fax	E-mail

**2. Contractor Information** (Please provide even if Contractor not used as a SVP contact)

Contractor		Company Name	
Mailing Address			
City		State	ZIP
Business Phone	Fax	E-mail	

**3. Other Contact Information** (Do not complete if the contractor above is to be used as SVP contact.)

<b>Contact Person</b>		<b>Company Name (if applicable)</b>	
<b>Mailing Address</b>			
<b>City</b>		<b>State</b>	<b>ZIP</b>
<b>Business Phone</b>	<b>Fax</b>	<b>E-mail</b>	

**Part III – Description of the Generating Facility**      Use additional sheets, if necessary.

**1. Disconnect Switch**

List the single disconnect switch that will be used at this generating facility.

Disconnect Switch Manufacturer	Disconnect Switch Model Number	Disconnect Switch Rating (amperes)

**2. Inverters interconnected with SVP**

List all the inverters that will be interconnected to SVP.

Inverter Number	Inverter Manufacturer	Inverter Model Number	Inverter Rating (watts) <sup>1</sup>
1.			
2.			

<sup>1</sup> For all equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

**3. Photovoltaic Equipment**

List the photovoltaic (PV) panel information requested below. If the panels are not all identical modules, list the total capacity connected to each inverter you listed above.

No.	PV Panel Manufacturer	PV Panel Model	PV Panel Rating <sup>2</sup> (kW)	Quantity of PV Panels	Total Capacity (kW)	Inverter number from (2) above (1 or 2)
1.						
2.						

**4. Wind Turbine Equipment**

List the wind turbine information requested below. If there is more than one wind turbine of the same type, list the total capacity connected to each inverter you listed in B) above. Write NONE if the inverter is incorporated in the wind turbine and no inverter is required.

No.	Wind Turbine Manufacturer	Wind Turbine Model	Wind Turbine Rating <sup>2</sup> (kW)	Quantity of Wind Turbines	Total Capacity (kW)	Inverter number from (2) above (1 or 2)
1.						

<sup>2</sup> For all equipment ratings, please use the nameplate rating found on the equipment or in the equipment specifications.

**Part IV – General Information**

**1. This application is for:**

A new (proposed) NM Generating Facility that has not previously been approved for interconnection by SVP.

An existing Generating Facility to which generator modifications are being made.

An existing NM Metering Facility which has previously been approved for interconnection by SVP and for which the account has been closed or had a change in the name on the bill.

**2. The Generating Facility in this Application is for:**

An existing SVP account.

A new SVP account

**3. Expected Date of final, Signed-Off Building Permit for Generating Facility?**

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