



# PSE&G

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## **INTERCONNECTION APPLICATION AND AGREEMENT**

**With Terms and Conditions for Interconnection**

For a Level 2 & 3 Review (Certified Inverter-based Units over 10kW)

**Mailing Address**

PSE&G Net Metering  
80 Park Plaza T-15  
Newark, NJ 07102

**Meter Change Outs**

Construction Inquiry  
(800) 722-0256, Option 5  
cinetmeter@pseg.com

**Technical IssuYg**

interconnections@pseg.com

**SOLAR LOAN CUSTOMERS ONLY**

**Solar Loan Interconnection Payments:**

5 Century Road  
South Plainfield, NJ 07080

*Do not send payment to 80 Park Plaza address*

**INTERCONNECTION AGREEMENT FOR**  
**LEVEL 2 OR LEVEL 3 PROJECTS**

This Interconnection Agreement ("Agreement") is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by \_\_\_\_\_, ("Electric Distribution Company" or "EDC"), and [\_\_\_\_\_] ("Customer-Generator"), each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties". In consideration of the mutual covenants set forth herein, the Parties agree as follows:

- 1) **Scope and Limitations of Agreement.** This Agreement shall be used for all approved Level 2 and Level 3 Interconnection Requests according to the procedures set forth by the New Jersey Board of Public Utilities' ("NJ BPU") regulations. This Agreement is applicable to conditions under which the EDC and the Customer-Generator agree that one or more generating facilities as further described in Attachment A ("Facility" or "Facilities"), with an installed nameplate gross capacity of \_\_\_\_\_ kW, and are to be interconnected at distribution voltages that do not fall under PJM's jurisdiction, may be interconnected to the EDC's system. The facility may be used for exporting retail electricity to the EDC's distribution system only as required for specific net metering regulations stipulated by the NJ BPU. Other than these regulations pertaining to netting generation credits for excess generation, this Agreement does not constitute an agreement to purchase or deliver the Customer-Generator's power. This Agreement is not applicable to purchases of power under any EDC Qualifying Facility power purchase tariff, or for wholesale transactions as defined by the Federal Energy Regulatory Commission ("FERC"), and which are included as part of a PJM Wholesale Market Participation Agreement ("WMPA"). A WMPA uses a separate form of Interconnection Agreement with the EDC.
  
- 2) **Construction of the Customer-Generator Facility.** The Customer-Generator may proceed to construct the Customer-Generator Facility once the approval to install the Customer-Generator Facility has been received from the EDC. The Customer-Generator Facility shall be constructed in accordance with information provided in the

Interconnection Application, the National Electrical Code (“NEC”), IEEE 1547 and the NJ BPU’s regulations.

The Applicant shall notify the EDC of any changes to the originally proposed Level 2 or 3 Customer-Generator Facility that would be subject to further review (e.g., Inverter Manufacturer/Model Number, Size, etc.).

Once an Interconnection Request is deemed complete, any modification to the proposed Customer-Generator Facility that would affect the application review criteria for a Level 2 or 3 project, and is not agreed to in writing by the EDC, shall require submission of a new Interconnection Application.

- 3) **Interconnection.** The Customer-Generator may interconnect and operate the Customer-Generator Facility with the EDC’s system once all of the following conditions precedent have been satisfied:
  - a) **Electrical Inspection:** Upon completing construction, the Customer-Generator shall have the Customer-Generator Facility inspected, or otherwise certified, by the local electrical wiring inspection authority having jurisdiction to ensure that the facility meets the requirements of the NEC.
  - b) **Certificate of Completion:** The Applicant shall provide the EDC with a completed copy of the Certificate of Completion, including evidence of the electrical inspection by the local authority having jurisdiction. The evidence of completion of the electrical inspection may be provided on inspection forms used by local inspecting authorities.
  - c) **Inspection:** The EDC has either completed its inspection or waived the right to inspection in this Agreement. After receipt of the Certificate of Completion, the EDC may, upon reasonable notice and at a mutually convenient time, conduct an inspection of the Customer-Generator Facility and observe a Witness Test to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with its requirements. “Witness Test” means the verification by an on-site observation by the EDC that the interconnection installation evaluation required by Section 5.3 of IEEE Standard

1547 and the commissioning test required by Section 5.4 of IEEE Standard 1547 have been adequately performed.

- d) Metering: Revenue quality metering equipment shall be installed and tested by the EDC. The EDC may choose to schedule the Witness Test also at this time. The Customer-Generator may be responsible for the cost of the purchase, installation, operation, maintenance, testing, repair, and replacement of metering and data acquisition equipment. The Customer-Generator may also be required to provide a voice-quality phone line within 3 feet of the meter to allow EDC to remotely interrogate the meter.
- e) Breaker Trip Control: Generators 1 MW and greater may require remote generator trip/isolation control by the EDC's system operations control center via a local SCADA unit or similar device.
- f) Acceptance: The EDC's representative has signed and returned the Certificate of Completion or provided notification by electronic mail or other acceptable means that the requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted for parallel operation.
- g) Special Procedures for Parallel Operation: Once the Customer-Generator Facility has been authorized to commence parallel operation, the Customer-Generator shall abide by any special written rules and procedures developed by the EDC which pertain to the parallel operation of the Customer-Generator Facility, and which are clearly specified in Attachment C of this Agreement.

**4) Operation:**

- a) Applicable Standards: The Customer-Generator shall construct, own, operate, and maintain its Customer-Generator Facility in accordance with this Agreement, IEEE Standard 1547, the National Electrical Safety Code ("NESC"), the NEC, and applicable standards promulgated by the NJ BPU.
- b) Areas of Responsibility: Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the attachments to this Agreement. Each Party shall be responsible for the safe installation, maintenance, repair, and condition of their respective lines and appurtenances on their respective sides of the Point of Common Coupling.

- c) **Minimization of Adverse System Impact:** The Customer-Generator agrees to design, install, maintain, and operate its Customer-Generator Facility so as to minimize the likelihood of causing an adverse system impact on an electric system that is not owned or operated by the EDC.
  - d) **Reactive Power:** The Customer-Generator shall design its Customer-Generator Facility to maintain a composite power delivery at continuous rated power output at the Point of Common Coupling at a power factor within the power factor range required by the EDC's applicable tariff for a comparable load customer.
- 5) **Periodic Testing.** All interconnection-related protective functions and associated batteries shall be periodically tested at intervals specified by the manufacturer, system integrator, or other authority that has jurisdiction over the Customer-Generator Facility interconnection. Periodic test reports or a log for inspection shall be maintained.
- 6) **Safe Operations and Maintenance.** The Customer-Generator shall be fully responsible to operate, maintain, and repair the Customer-Generator Facility as required to ensure that the Customer-Generator Facility complies at all times with the interconnection standards it has been certified to meet.
- 7) **Access.** The EDC shall have access to the metering equipment and the disconnecting means of the Customer-Generator Facility at all times. The EDC shall provide reasonable notice to the Customer-Generator, when possible, prior to using its right of access. In an emergency or outage situation, where there is no access to an AC disconnecting means such as a switch or breaker, the EDC may disconnect the service to the premise.
- 8) **Exterior AC Disconnect Switch / Isolation Device.** Small generator facilities shall be capable of being isolated from the EDC by means of a lockable, visible-break isolation device accessible by the EDC in accordance with NEC requirements. The isolation device shall be installed, owned and maintained by the Customer-Generator and located between the small generation facility and the point of interconnection. A draw-out type circuit breaker with a provision for padlocking at the draw-out position

can be considered an isolation device for purposes of this requirement. A Customer-Generator may elect to provide the EDC access to an isolation device that is contained in a building or area that may be unoccupied and locked, or not otherwise readily accessible to the EDC, by installing a lockbox for use solely by the EDC for obtaining access to the isolation device. The Customer-Generator shall install the lockbox in a location that is readily accessible by the EDC and the Customer-Generator, and shall permit the EDC to affix a placard in a location of its choosing that provides clear instructions to EDC operating personnel on access to the isolation device. The Customer-Generator, at its option, may provide and install this placard.

- 9) **Conflicts in Agreements.** Nothing in this Agreement is intended to affect any other agreement between the EDC and the Customer-Generator. However, in the event that the provisions of this Agreement are in conflict with the provisions of the EDC's tariff, the EDC tariff shall control.
  
- 10) **Disconnection.** The EDC may temporarily disconnect the Customer-Generator Facility upon occurrence of any of the following conditions:
  - a) For scheduled outages upon reasonable notice,
  - b) For unscheduled outages or emergency conditions,
  - c) If the EDC determines that the Customer-Generator Facility does not operate in a manner consistent with this Application/Agreement,
  - d) If the EDC determines that continued operation of the Customer-Generator Facility is a safety hazard to the EDC's personnel or to the general public,
  - e) In the event the interconnection equipment used by the Customer-Generator Facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved and the EDC ascertains that the continued operation has the potential to cause a safety, reliability or a power quality problem.
  
- 11) **Customer-Generator Billing and Payment:**
  - a) **Payment for Interconnection Facilities:** The Customer-Generator shall pay for the cost of the Interconnection Facilities itemized in Attachment E of this Agreement. If a study was performed, the EDC shall identify the Interconnection

Facilities necessary to safely interconnect the Customer-Generator's facility with the EDC's Electric Distribution System, the cost of those facilities, and the time required to build and install those facilities.

- b) **Scope of Cost for Interconnection Facilities:** The EDC shall bill the Customer-Generator for the design, engineering, procurement, construction, and commissioning costs of EDC provided interconnection facilities and distribution upgrades contemplated by this Agreement as set forth in Attachment G, on a monthly basis, or as otherwise agreed by the Parties. The Customer-Generator shall pay each bill within 30 calendar days of receipt, or as otherwise agreed to by the Parties.
- c) **True-Up of Actual Costs:** Within one hundred and twenty (120) calendar days of completing the construction and installation of the EDC's interconnection facilities and Distribution Upgrades described in the Attachments E and G to this Agreement, the EDC shall provide the Customer-Generator with a final accounting report of any difference between (1) the actual cost incurred to complete the construction and installation and the budget estimate provided to the Customer-Generator and a written explanation for any significant variation; and (2) the Customer-Generator's previous deposit and aggregate payments to the EDC for such interconnection facilities and distribution upgrades. If the Customer-Generator's cost responsibility exceeds its previous deposit and aggregate payments, the EDC shall invoice the Customer-Generator for the amount due and the Customer-Generator shall make payment to the EDC within thirty (30) calendar days. If the Customer-Generator's previous deposit and aggregate payments exceed its cost responsibility under this Agreement, the EDC shall refund to the Customer-Generator an amount equal to the difference within thirty (30) calendar days of the final accounting report.
- d) **Deposit:** At least twenty (20) business days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of the EDC's interconnection facilities and distribution upgrades, the Customer-Generator shall provide the EDC with a deposit equal to 100% of the estimated costs prior to its beginning design of such facilities.
- e) **Modification of the Customer-Generator Facility:** The Customer-Generator must receive written authorization from the EDC prior to making any change to the

Customer-Generator Facility, other than a minor equipment modification, that could cause an Adverse System Impact. If the Customer-Generator makes such modification without the EDC's prior written authorization, the EDC shall have the right to temporarily disconnect the Customer-Generator Facility until such time as the EDC reasonably concludes the modification poses no threat to the safety or reliability of its Electric Distribution System.

- 12) **Insurance.** For generator facilities with a Nameplate Capacity of 2 MW or above, the Customer-Generator shall carry adequate insurance coverage that shall be acceptable to the EDC; provided, that the maximum comprehensive/general liability coverage that shall be continuously maintained by the Customer-Generator during the term shall be not less than \$2,000,000 for each occurrence, and an aggregate, if any, of at least \$4,000,000. The EDC, its officers, employees and agents will be added as an additional insured on this policy.
- 13) **Customer-Generator Indemnification.** To the fullest extent permitted by law, Customer-Generator shall indemnify, defend, and hold harmless EDC, any and all of the members of its governing bodies, and its officers, agents, and employees ("EDC Indemnifieds") for, from, and against any and all claims, demands, suits, costs of defense, attorneys' fees, witness fees of any type, losses, damages, expenses, and liabilities, whether direct, indirect or consequential, personal injury, death, or occupational disease of any person, including, but not limited to, all Contractor's or Subcontractor's employees or agents; or due to loss or damage to any real or personal property tangible or intangible; which in whole or in part arise out of, are related to, arise from, or are in any way connected with: (a) Customer-Generator's or any non-EDC party's design, construction, installation, inspection, maintenance, testing or operation of the Customer-Generator Facility or equipment used in connection with this Agreement; (b) the interconnection of the Customer-Generator Facility with, and delivery of energy from the Customer-Generator Facility to, EDC's electrical distribution system; or (c) the performance or nonperformance of Customer-Generator's obligations under this Agreement. It is the intent of EDC and Customer-Generator that EDC shall, in all instances except for loss or damage resulting from the sole negligence of EDC, be indemnified against all liability, loss, or damage of any nature whatsoever for or on account of any injuries or death of person(s) or damages



to or destruction of property belonging to any person arising out of, or in any way connected with, Customer-Generator's performance of this Agreement and the interconnection of the Customer-Generator Facility. Customer-Generator's obligations under this Section shall survive the termination of this Agreement.

- 14) **Limitation of Liability.** THE EDC'S TOTAL LIABILITY TO THE CUSTOMER-GENERATOR FOR ALL CLAIMS OR SUITS OF ANY KIND, WHETHER BASED UPON CONTRACT, TORT (INCLUDING NEGLIGENCE), WARRANTY, STRICT LIABILITY OR OTHERWISE, FOR ANY LOSSES, DAMAGES, COSTS OR EXPENSES OF ANY KIND WHATSOEVER ARISING OUT OF, RESULTING FROM, OR RELATED TO THE PERFORMANCE OR BREACH OF THIS CONTRACT SHALL, UNDER NO CIRCUMSTANCES, EXCEED THE FINAL COST OF ANY INTERCONNECTION FACILITIES PAID FOR BY THE CUSTOMER-GENERATOR. THE EDC SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL LOSSES, DAMAGES, COSTS, OR EXPENSES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, LOST OR REDUCED PROFITS, REVENUES, EFFICIENCY, PRODUCTIVITY, BONDING CAPACITY, OR BUSINESS OPPORTUNITIES, OR INCREASED OR EXTENDED OVERHEAD, OPERATING, MAINTENANCE OR DEPRECIATION COSTS AND EXPENSES).
- 15) **Termination.** This Application/Agreement may be terminated under the following conditions:
- a) By Customer-Generator. The Customer-Generator may terminate this Application/Agreement by providing written notice to the EDC.
  - b) By the EDC. The EDC may terminate this Application/Agreement if the Customer-Generator fails to remedy a violation of terms of this Application/Agreement after providing written notice and a reasonable opportunity to cure.
- 16) **Permanent Disconnection.** In the event the Application/Agreement is terminated, the EDC shall have the right to disconnect its facilities or direct the Customer-Generator to disconnect its Customer-Generator Facility.

- 17) **Survival Rights.** This Application/Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill its rights or obligations that arose under the Application/Agreement.
- 18) **Assignment/Transfer of Ownership of the Customer-Generator Facility.** The rights granted to the Customer-Generator under this Application/Agreement shall not survive the transfer of ownership of the Customer-Generator Facility to a new owner unless the new owner agrees to the assignment/transfer of this Application/Agreement and accepts the concomitant responsibilities, and so notifies the EDC in writing within fifteen (15) days of such transfer of ownership. In order for the new owner to be treated as a Net Metering customer for billing purposes, the new owner shall be responsible for providing legal evidence to the EDC of an assignment of the existing Application/Agreement, or if the existing agreement has terminated under this provision, a new Application/Agreement will be required before Net Metering will be reinstated.
- 19) **No Third Party Beneficiaries.** This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 20) **No Waiver.** The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered to waive the obligations, rights, or duties imposed upon the Parties.
- 21) **Definitions.** The capitalized terms used herein, and the definitions of such terms, are as those used in N.J.A.C. 14:8-4.2 Net Metering and Interconnection Standards for Class I Renewable Energy Systems.;
- 22) **Notice.** Unless otherwise provided in this Application/Agreement, any written notice, demand or request required or authorized in connection with this

Application/Agreement (“Notice”) shall be deemed properly given if delivered in person, sent by Electronic Mail (E-mail), sent by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

**If to EDC:**

The contact listed on the EDC website as the primary contact for the EDC listed in the Customer-Generator’s Facility Information section in Attachment A of this Interconnection Agreement.

**If to Customer-Generator:**

The contact listed in the Legal Name and Mailing Address of Customer-Generator section on Attachment A of this Interconnection Application. The Customer-Generator is responsible for notifying the EDC of any change in the contact party information.

In the event the original applicant sells or otherwise transfers ownership of the property listed in the Customer-Generator Facility’s Information section listed in Attachment A of the Interconnection Agreement, the original applicant shall provide the EDC with the appropriate contact information for the new owner of the property. Upon any subsequent transfer of ownership, the then current owner shall provide the EDC with the new owner’s information.

- 23) **Governing Law and Regulatory Authority.** This Agreement shall be governed by, interpreted, construed, and enforced in accordance with the laws of the State of New Jersey. This Agreement is subject to, and the Parties' obligations hereunder include, operating in full compliance with all valid, applicable federal, state, and local laws or ordinances, and all applicable rules, regulations, orders of, and tariffs approved by duly constituted regulatory authorities having jurisdiction.

24) **Multiple Counterparts.** This Agreement may be executed in two counterparts, each of which is deemed an original but all constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their respective duly authorized representatives.

Select Utility \_\_\_\_\_

Customer-Generator \_\_\_\_\_

BY: \_\_\_\_\_

BY: \_\_\_\_\_

NAME: \_\_\_\_\_

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_



## ATTACHMENT A DESCRIPTION OF FACILITY

For a Level 2 or 3 Interconnection Agreement <sup>1</sup>  
(Application & Conditional Agreement – to be filled out prior to installation)

### CUSTOMER GENERATOR CONTACT INFORMATION

**Legal Name and Mailing Address of Customer-Generator: (if an Individual, Individual's Name)**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City State ZIP

\_\_\_\_\_  
Phone (Daytime) Phone (Evening)

\_\_\_\_\_  
Email (required) Facsimile

**Project Contact Information: (if different from Customer-Generator above)**

\_\_\_\_\_  
Company Name (if applicable)

\_\_\_\_\_  
Contact Person (if other than above)

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

\_\_\_\_\_  
City State ZIP

\_\_\_\_\_  
Phone (Daytime) Phone (Evening)

\_\_\_\_\_  
Email (required) Facsimile

### CUSTOMER GENERATOR FACILITY INFORMATION

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
Nearest Crossing Street

\_\_\_\_\_  
City State ZIP

\_\_\_\_\_  
PSE&G Account # Meter #

\_\_\_\_\_  
Current Annual Energy Consumption kWh

\_\_\_\_\_  
One-line Diagram Attached? Yes No  
*(Required)*

\_\_\_\_\_  
Est. Gross Annual Energy Production kWh

\_\_\_\_\_  
Site plan attached? Yes No  
*(Required)*

\_\_\_\_\_  
Do you plan to export power? Yes No

\_\_\_\_\_  
Estimated In-service Date

\_\_\_\_\_  
If Yes, Estimated Maximum: kWAC

\_\_\_\_\_  
IEEE1547/UL1741 Certification<sup>2</sup> Yes No

Energy Source:		Inverter Type:
Solar	Biogas	Grid Interactive
Wind	Diesel	Grid Interactive
Nat Gas	Other	w/Standalone
Hydro		Grid Interactive
		w/Battery

\_\_\_\_\_  
AmpsAC 1 3  
Ampere Rating No. of Phases

\_\_\_\_\_  
VAC kWDC  
Voltage Rating DC Source Rating

\_\_\_\_\_  
VDC %  
Nominal DC Voltage Power Factor

\_\_\_\_\_  
Inverter Manufacturer Total Inverter Rating (Required) kWAC

\_\_\_\_\_  
Location of Utility Access-  
ible Disconnect or Lock Box Frequency HZ

\_\_\_\_\_  
Inverter(s) Model No(s). No. of Inverters (Required) kWAC

<sup>1</sup>) Customers proposing to install generation greater than 2,000 kW are required to contact their EDC for the appropriate application procedures.



# PSEG

Energy Converter Type			
Water Turbine	Photovoltaic Cell	Steam Turbine	Other
Wind turbine	Fuel Cell	MHD	

<i>kW or kVA</i>		Generator Type	Induction
Generator Size	No. of Generator Units		Inverter
Total Electrical Generation Capacity	<i>kW or kVA</i>		Synchronous
			Other

**Electric Service Info. for Customer Facility Where Generator Will Be Interconnected**

<i>Amps</i>		<i>Volts</i>	
Capacity	Voltage	Transformer Size	Impedance
Type of Service	Single Phase Three Phase	If Three Phase, Indicate Type:	
		Primary Winding	Wye Delta
		Secondary Winding	Wye Delta

**Intent of Generation**

Offset Load (Unit will operate in parallel, but will not export power to EDC)  
 Net Meter (Unit will operate in parallel and will export power pursuant to New Jersey Net Metering or other filed tariff(s) **Purchased Electrical Power (PEP)**)  
 Back-up Generation (Units that temporarily parallel for more than 100 milliseconds)  
*Note: Backup units that do not operate in parallel for more than 100 milliseconds do not need an interconnection agreement.*

**Energy Production Equipment/Inverter Information**

Synchronous		<i>kW</i>	<i>kVA</i>
Induction		Rating	Rating
Inverter			
Other _____			
		<i>Volts</i>	<i>Amps</i>
System Type Tested (Total System):	Yes No	Rated Voltage	Rated Current
<i>Attach product literature</i>			

**For Synchronous Machines**

*Note: Contact EDC to determine if all the information requested in this section is required for the proposed Customer-Generator Facility.*

Manufacturer	Model No.	Version No.	<i>Submit Copies of the Saturation and Vee Curve</i>	
			Salient	Non-Salient
<i>lb-ft</i>				
Torque	Rated RPM			
Field Amps _____ at rated generator voltage and current and _____% PF over-excited				
Type of Exciter	Output Power of Exciter	<i>Amps</i>	<i>RPM</i>	
		Current	Synchronous Speed	
Type of Voltage Regulator (Locked Rotor)		Winding Connection	Min. Operating Freq/Time	
Generator Connection	Delta Wye Wye Grounded			
Direct-axis Synchronous Reactance (Xd)	<i>ohms</i>	Negative Sequence Reactance	<i>ohms</i>	
Direct-axis Transient Reactance (X'd)	<i>ohms</i>	Zere Sequence Reactance	<i>ohms</i>	
Direct-axis Sub-Transient Reactance (X''d)	<i>ohms</i>	Neutral Impedance or Grounding Resister (if any)	<i>ohms</i>	

**For Induction Machine**

Note: Contact EDC to determine if all the information requested in this section is required for the proposed Customer-Generator Facility.

<u>Manufacturer</u>	<u>Model No.</u>	<u>Version No.</u>	<u>Locked Rotor Current</u> <span style="float: right;"><i>Amps</i></span>
<i>ohms</i>			<i>ohms</i>
<u>Rotor Reactance (Xr)</u>	<u>Reactive Power Required</u>		<u>Exciting Current</u> <span style="float: right;"><i>Amps</i></span>
<i>ohms</i>			<i>ohms</i>
<u>Magnetizing Reactance (Xm)</u>	<u>VARs No Load</u>		<u>Rotor Reactance (Xr)</u> <span style="float: right;"><i>ohms</i></span>
<i>ohms</i>			<i>ohms (X"d)</i>
<u>Stator Resistance (Rs)</u>	<u>VARs Full Load</u>		<u>Short Circuit Reactance</u> <span style="float: right;"><i>ohms</i></span>
<i>ohms</i>			<i>Temp</i>
<u>Phases</u>	<u>Single Phase</u>		<u>Frame Size</u> <span style="float: right;"><i>°C</i></span>
	<u>Three Phase</u>		<u>Design Letter</u>
			<u>Rise</u>

**Additional Information for Inverter Based Facilities**

<b>Inverter Information</b>	<b>DC Source/Prime Mover</b>
<u>Manufacturer</u>	<u>Rating</u> <span style="float: right;"><i>kW</i></span>
<u>Model</u>	<u>Rating</u> <span style="float: right;"><i>kVA</i></span>
<u>Type:</u>	<u>Rated Voltage</u> <span style="float: right;"><i>Volts</i></span>
<u>Force Commutated</u>	<i>Amps</i>
<u>Line Commutated</u>	<i>Amps</i>
<u>Rated Output</u> <span style="float: right;"><i>Watts</i></span>	<u>Rated Current</u> <span style="float: right;"><i>Amps</i></span>
<u>Efficiency</u> <span style="float: right;"><i>%</i></span>	<u>Short Circuit Current</u> <span style="float: right;"><i>Amps</i></span>
<u>Power Factor</u> <span style="float: right;"><i>%</i></span>	<u>(if applicable)</u>
<u>Inverter UL 1547 Listed:</u> <u>Yes</u> <u>No</u>	<b>Other Facility Information</b>
	<u>One-line Diagram Attached?</u> <span style="float: right;"><u>Yes</u> <u>No</u></span>
	<u>Site plan attached?</u> <span style="float: right;"><u>Yes</u> <u>No</u></span>

**CUSTOMER-GENERATOR SIGNATURE**

I hereby certify that: 1) I have read and understand the Terms and Conditions which are attached hereto by reference and are made a part of this Application/Agreement; 2) The Equipment Installation Contractor is acting on behalf of the Customer-Generator and the EDC (as defined) is authorized to act in reliance upon the Equipment Installation Contractor's relationship with the Customer-Generator; 3) The Applicant shall notify the EDC of any changes to the proposed Customer-Generator Facility that would be subject to the criteria for a Level 2 or 3 review (e.g., Equipment Installation Contractor, inverter manufacturer/model number, size, etc.); 4) Once an Interconnection Request is deemed complete, any modification to the proposed Customer-Generator Facility that would affect the application review criteria for a Level 2 or 3 review that is not agreed to in writing by the EDC, shall require submission of a new Interconnection Request; and 5) To the best of my knowledge, all of the information provided in this Interconnection Application/Agreement is true and I agree to abide by the attached Terms and Conditions for Interconnection, including the application process set forth therein.

\_\_\_\_\_  
Interconnection Customer Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

An application fee is required before the application can be processed. Please verify that the appropriate fee is included with the application:

Application Fee Included ( ) Amount:

**EDC Acknowledgement**

Receipt of the application fee is acknowledged and the interconnection request is complete.

\_\_\_\_\_  
EDC Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title



# ATTACHMENT B CERTIFICATE OF COMPLETION

For a Level 2 or 3 Interconnection Agreement  
Final Agreement - to be filled out after installation and before interconnection

## CUSTOMER GENERATOR CONTACT INFORMATION

Legal Name and Mailing Address of Customer-Generator: (if an Individual, Individual's Name)

Name

Contact Person (If different from Name)

Street Address

Mailing Street Address (if different from address)

City State ZIP

City State ZIP

Phone (Daytime) Phone (Evening)

Email (required) Facsimile

## CUSTOMER GENERATOR FACILITY INFORMATION

Street Address

Nearest Crossing Street

City State ZIP

PSE&G Account # Meter #

Energy Source:		Inverter Type:
Solar	Biogas	Grid Interactive
Wind	Diesel	Grid Interactive
Nat Gas	Other	w/Standalone
Hydro		Grid Interactive
		w/Battery

Inverter Manufacturer kWAC  
Inverter Rating

Inverter(s) Model No(s). kWAC  
No. of Inverters<sup>†</sup>

*(Attach additional sheets as necessary in the event of multiple units of various types/sizes)*

## EQUIPMENT INSTALLATION CONTRACTOR Check if Owner Installed ( )

Company Name if Applicable

Contact Person (If different from Name)

Mailing Street Address

Phone (Daytime) Phone (Evening)

City State ZIP

Email (required) Facsimile

The undersigned asserts that the Equipment has been installed in accordance with of the Interconnection Application as well as all applicable codes and regulations.

Signed

Date

Printed Name

Title





# PSEG

**ELECTRICAL CONTRACTOR (If Different from Equipment Installation Contractor)**

\_\_\_\_\_  
Name

\_\_\_\_\_  
Contact Person (If different from Name)

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

\_\_\_\_\_  
Phone (Daytime)

\_\_\_\_\_  
Phone (Evening)

\_\_\_\_\_  
City State ZIP

\_\_\_\_\_  
Email

\_\_\_\_\_  
Facsimile

The undersigned asserts that the Equipment has been installed in accordance with of the Interconnection Application as well as all applicable codes and regulations.

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**ELECTRICAL INSPECTION<sup>1</sup>**

The system has been installed and inspected in compliance with the provisions of the NEC and other applicable codes and standards as well as the local Building/Electrical Code of:

\_\_\_\_\_  
*(Appropriate Governmental Authority)*

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

\_\_\_\_\_  
Date

**CUSTOMER-GENERATOR SIGNATURE<sup>2</sup>**

The Customer-Generator Facility is complete and ready for interconnected operation in accordance with all of the provisions of the Interconnection Application/Agreement. The Customer-Generator acknowledges that it shall **not** operate the Facility until receipt of Final Acceptance (below), or as otherwise provided for by regulation.

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**Final Acceptance to Interconnect Customer-Generator Facility (for Use by EDC Only)**

The requirements for interconnection are complete and interconnection of the Customer-Generator Facility is accepted upon signature and return of this Certificate of Completion or by notification by electronic mail or other acceptable means by the EDC.

Electric Distribution Company waives Witness Test?

Yes No

If no, Successful Witness Test Date \_\_\_\_\_

Passed: \_\_\_\_\_ **(Initial)**

\_\_\_\_\_  
EDC Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

1) Completion of local inspections may be designated on inspection forms used by local inspecting authorities.

2) As a condition of interconnected operation, you are required to send/fax/e-mail a completed signed copy of this Certificate of Completion to your EDC at the address in the Terms & Conditions for Interconnection.



**PSEG**

**ATTACHMENT C  
DESCRIPTION OF FACILITY**

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**FACILITY DESCRIPTION**

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Description of generating unit(s) (the Customer-Generator Facility) to be interconnected with the EDC:

a) Name of Customer-Generator's Facility:

b) Location of Customer-Generator Facility:

c) Size in megawatts of Customer-Generator Facility:

Maximum Facility Output of \_\_\_\_ MW

d) Description of the equipment configuration:



**PSEG**

**ATTACHMENT D  
GENERATION AND  
INTERCONNECTION ONE-LINE**

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**GENERATION AND INTERCONNECTION ONE-LINE DIAGRAM**



**ATTACHMENT E  
DESCRIPTION OF INTERCONNECTION  
FACILITIES**

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**DESCRIPTION OF INTERCONNECTION FACILITIES**

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1. Location of Point of Common Coupling:

The Point of Common Coupling (sometimes referred to as the "Interconnection Point") will be located at:

---

2. Projected Date Customer-Generator's Facility will connect to EDC's Electric System:

Energization Date: \_\_\_\_\_  
(Pre-Parallel Operational Testing and Inspection per Article 3.2)

In-service Date: \_\_\_\_\_

3. Description of Point of Common Coupling:

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4. Interconnection Facilities Description and Requirements:

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5. Description of Metering Facilities:

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6. Description of Telemetry Facilities:

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7. Interconnection Protection Description and Requirements:

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8. Milestones:



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**ATTACHMENT F  
SPECIAL PROCEDURES FOR  
PARALLEL OPERATION**

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**SPECIAL PROCEDURES FOR PARALLEL OPERATION**

(special technical considerations for system protection, metering, data acquisition, etc)



**ATTACHMENT G  
INTERCONNECTION FACILITIES COST  
ESTIMATE**

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**INTERCONNECTION FACILITIES COST ESTIMATE**

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1. Interconnection Facilities Cost Estimate:

Construction Responsibility and Ownership of Interconnection Facilities

a. Customer Generator:

Customer-Generator shall construct and, unless otherwise indicated, shall own the following Interconnection Facilities:

b. EDC

2. Cost Breakdown:

	\$0 Direct Labor
	\$0 Direct Material
	\$0 Indirect Labor
	\$0 Indirect Material
<hr/>	
	\$0 Total

3. Security Amount Breakdown:

	\$0 Estimated Cost of Distribution Upgrades
plus	\$0 Estimated cost of the work on the required Interconnection Facilities
less	<hr/> \$0 Costs already paid by Customer-Generator
	\$0 Total Security Deposit Required

4. Estimated annual operation and maintenance expenses:

\$0