

**JERSEY CENTRAL POWER & LIGHT**  
**INTERCONNECTION APPLICATION and AGREEMENT for LEVEL 2 OR LEVEL 3**  
**PROJECTS**

This Interconnection Agreement ("Agreement") is made and entered into this \_\_\_\_ day of \_\_\_\_\_, by Jersey Central Power & Light Company, ("Electric Distribution Company" or "JCP&L"), and \_\_\_\_\_ (*Insert Customer's Name*) ("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 JCP&L and the Customer-Generator agree that one or more generating facilities as further described in Attachment A, Application for Interconnection & Description of Generating Facility, attached hereto and made part of this Agreement, with an installed nameplate gross capacity of \_\_\_\_ kW AC, and are to be interconnected at distribution voltages that do not fall under PJM's jurisdiction, may be interconnected to JCP&L's system. The facility may be used for exporting retail electricity to JCP&L's distribution system only as required for specific NJ BPU net metering regulations. 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 JCP&L 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 JCP&L.
- 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 JCP&L. The Customer-Generator Facility shall be constructed in accordance with information provided in the Interconnection Application, the National Electrical Code ("NEC"), IEEE 1547, the NJ BPU's regulations and FirstEnergy's Generator Interconnection Technical Requirements (EP# 02-280, Interconnection of Customer-Owned Generation to The FirstEnergy

Distribution System, Part C), and FirstEnergy's Requirements for Transmission Connected Facilities (if applicable).

The Applicant shall notify JCP&L 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 JCP&L, shall require submission of a new Interconnection Application.

- 3) **Interconnection.** The Customer-Generator may interconnect and operate the Customer-Generator Facility with JCP&L'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:** a) **Certificate of Completion:** The Applicant shall provide JCP&L with a completed copy of Attachment B, the Certificate of Completion, attached hereto and made part of this Agreement, including evidence of completion of the electrical inspection for compliance with the National Electrical Code, signed 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:** JCP&L has either completed its inspection or waived the right to inspection in this Agreement. After receipt of the Certificate of Completion, JCP&L 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 JCP&L 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<sup>1</sup>: Revenue quality metering equipment shall be installed and tested by JCP&L. JCP&L 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 JCP&L to remotely interrogate the meter.
- e) Breaker Trip Control: Generators 2 MW and greater will require remote generator trip/isolation control by JCP&L's system operations control center via a local SCADA unit or similar device.
- f) Acceptance: JCP&L'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 JCP&L 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 its respective lines and appurtenances on its respective side 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

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<sup>1</sup> At JCP&L's option, a simple meter exchange may occur after the approval to operate is issued.

minimize the likelihood of causing an adverse system impact on an electric system that is not owned or operated by JCP&L.

- 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 JCP&L'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.** JCP&L shall have access to the metering equipment and the disconnecting means of the Customer-Generator Facility at all times. JCP&L 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, JCP&L may disconnect the service to the premise.
- 8) **Exterior AC Disconnect Switch / Isolation Device.** Small generator facilities shall be capable of being isolated from JCP&L by means of a lockable, visible-break isolation device accessible by JCP&L 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 JCP&L 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 JCP&L, by installing a lockbox for use solely by JCP&L for obtaining access to the isolation device. The Customer-Generator shall install the lockbox in a location that is readily accessible by JCP&L and the Customer-Generator, and shall permit JCP&L to affix a placard in a location of its choosing that provides clear instructions to JCP&L 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 JCP&L and the Customer-Generator. However, in the event that the provisions of this Agreement are in conflict with the provisions of JCP&L's tariff, JCP&L's tariff shall control.
- 10) **Disconnection.** JCP&L 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 JCP&L determines that the Customer-Generator Facility does not operate in a manner consistent with this Application/Agreement,
  - d) If JCP&L determines that continued operation of the Customer-Generator Facility is a safety hazard to JCP&L'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 JCP&L 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 D of this Agreement. If a study was performed, JCP&L shall identify the Interconnection Facilities necessary to safely interconnect the Customer-Generator's facility with JCP&L's Electric Distribution System, the cost of those facilities, and the time required to build and install those facilities. Generally this estimate will constitute the entire cost responsibility of the Customer-Generator. However, at the option of the Company or if requested by the customer, prior to incurring any costs for any construction or additional studies, said costs may be deemed to be subject to a true up to actual costs in accordance with paragraph c) below. Depending on the complexity of the proposed facility, the studies, engineering and construction may require multiple agreements.
  - b) **Scope of Cost for Interconnection Facilities:** JCP&L shall bill the Customer-Generator for the design, engineering, procurement, construction, and commissioning costs of JCP&L provided interconnection facilities and distribution upgrades contemplated by this Agreement as set forth in Attachment E, 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 JCP&L's interconnection facilities and Distribution Upgrades described in the Attachments D and E to this Agreement, JCP&L 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 JCP&L for such interconnection facilities and distribution upgrades. If the Customer-Generator's cost responsibility exceeds its previous deposit and aggregate payments, JCP&L shall invoice the Customer-Generator for the amount due and the Customer-Generator shall make payment to JCP&L within thirty (30) calendar days. If the Customer-Generator's previous deposit and aggregate payments exceed its cost responsibility under this Agreement, JCP&L 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 JCP&L's interconnection facilities and distribution upgrades, the Customer-Generator shall provide JCP&L 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 JCP&L 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 JCP&L's prior written authorization, JCP&L shall have the right to temporarily disconnect the Customer-Generator Facility until such time as JCP&L 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 JCP&L; 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. JCP&L, 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 JCP&L, any and all of the members of its governing bodies, and its officers, agents, and employees ("JCP&L 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-JCP&L 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, JCP&L's electrical distribution system; or (c) the performance or nonperformance of Customer-Generator's obligations under this Agreement. It is the intent of JCP&L and Customer-Generator that JCP&L shall, in all instances except for loss or damage resulting from the sole negligence of JCP&L, 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.** JCP&L'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. JCP&L 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 JCP&L.
  - b) By JCP&L. JCP&L 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, JCP&L 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 JCP&L 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 JCP&L 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.** 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 JCP&L:**

The contact listed on the JCP&L website as the primary contact for JCP&L 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 JCP&L 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 JCP&L with the appropriate contact information for the new owner of the property. Upon any subsequent transfer of ownership, the then current owner shall provide JCP&L 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) **Amendments:** There will be no changes or amendments to this form of Agreement unless specifically agreed to by all Parties in writing prior to the interconnection application being deemed complete. Notwithstanding the foregoing, the only amendments to this form of Agreement that will be considered are those which may be necessary due to the status of a Customer-Generator as a public or governmental entity.
- 25) **Entire Agreement:** This Agreement, together with any attachments or exhibits specifically referenced herein, constitutes the entire agreement between the Parties with respect to the subject matter hereof, supersedes all prior oral or written representations and contracts, and may be modified only by a written amendment signed by all Parties.
- 26) **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.

Jersey Central Power & Light Company

Customer-Generator

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

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

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

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

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

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

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

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

# Attachment A

## Application for Service and Description of Facility

For a Level 2 or 3 Interconnection Agreement 1 \* Indicates Required Entry

\*      New          Revision to Open App          Incremental Addition to Existing Generation          Community Solar

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

\*Name: \_\_\_\_\_  
\*Mailing Address: \_\_\_\_\_  
\*City: \_\_\_\_\_ State: \_\_\_\_\_ \*Zip Code: \_\_\_\_\_  
Contact Person (If other than above): \_\_\_\_\_  
Mailing Address (If other than above): \_\_\_\_\_  
\*Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ \*E-Mail Address: \_\_\_\_\_

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

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**The Customer-Generator Facility's Information (Where Generator will be interconnected):**

\*Facility Address: \_\_\_\_\_  
\*City: \_\_\_\_\_ State: NJ \*Zip Code: \_\_\_\_\_  
\*Account #: 1000 Meter #: \_\_\_\_\_  
\*Utility Accessible Disconnect or Lock Box: Select \_\_\_\_\_  
\*Electric Generation Supplier (if different from JCP&L): \_\_\_\_\_  
\*Service Capacity: \_\_\_\_\_ (Amps) \*Voltage: \_\_\_\_\_ (volts) \*Number of Phases: Select  
\*If 3-Phase Customer Owned Transformer?  Yes  No <sup>2</sup> (See footnote for JCP&L Owned Transformer)  
If Yes: Primary Winding:  Wye  Delta          If Yes: Secondary Winding:  Wye  Delta  
\*If Customer Owned: Percentage Impedance: \_\_\_\_\_% \*Transformer Size: \_\_\_\_\_ (kVA)  
\*Do you plan to export power? Select \_\_\_\_\_  
\*If Yes, Estimated Maximum: \_\_\_\_\_ kW<sub>AC</sub>, \*Estimated Gross Annual Energy Production: \_\_\_\_\_ kWh  
\*Current Annual Energy Consumption: \_\_\_\_\_ kWh  
\*Energy Source: Select \_\_\_\_\_ \*Rating \_\_\_\_\_ kW<sub>AC</sub> or DC

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

<sup>2</sup> Do not contact JCP&L for Transformer data. JCP&L will provide the winding & impedance information for JCP&L transformers. If needed for system design purposes, the kVA rating is located below the secondary connections in black numerals on pole mounted transformers & on the top front or above the locking mechanism on pad mount transformers.

**Equipment Installation Contractor:** Indicate by owner if applicable

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact Person (If other than Above): \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

**Electrical Contractor: (If Applicable)** Indicate if not applicable

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact Person (If other than Above): \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

**Consulting Engineer: (If Applicable)** Indicate if not applicable

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact Person (If other than Above): \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

**\*Level of Review:**

Level 2 – Certified, Inverter based, Up to 2,000 kW – Application Fee = \$50 + \$1 / kW AC

Level 3 – All projects over 2000 kW and all other projects that don't qualify for Level 2 - Application Fee = \$100 + \$2 / kW AC

**\*Intent of Generation:** (\* Denotes Mandatory Response)

Offset Load (Unit will operate in parallel, but will not export power to JCP&L) \*  Yes  No

Net Meter (Unit will operate in parallel with JCP&L and may export power pursuant to New Jersey Net Metering or other filed tariff(s)) \*  Yes  No

Wholesale Market Transaction (Unit will operate in parallel with JCP&L and participate in PJM market(s) pursuant to a PJM Wholesale Market Participation Agreement) & may be eligible to export energy) \*  Yes  No. **If "Yes", please contact PJM to continue application process.**

PJM Demand Response Market Participant (System will not export energy)

Energy, Capacity, Load Reduction &/or Synchronized Reserve Markets \*  Yes  No

Regulation Market \*  Yes  No (If Yes, Please contact JCP&L for supplemental information form)

Back-up Generation (Units that temporarily parallel with the JCP&L system) \*  Yes  No

**Documents required with this application**

\*Application Fee Attached:  Yes  No

\*One-line Diagram Attached (Required):  Yes  No \*Site Plan Attached (Required):  Yes  No

\*Generator data page for each type of generation as identified on Pages 4, 5, and 6. Check all that apply:  Inverter  Synchronous  Induction  Frequency Regulation (Please contact JCP&L for Supplemental Form)

**Customer-Generator Insurance Disclosure:**

The attached Terms and Conditions contain provisions related to liability, and indemnification and should be carefully considered by the Customer-Generator. The Customer-Generator is not required to obtain liability insurance coverage as part of this Agreement for installations less than 2 MW; however, the Customer-Generator is advised to consider obtaining appropriate coverage.

**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 Agreement. 2) The Equipment Installation Contractor may be acting on behalf of the Customer-Generator and JCP&L (as defined) is authorized to act in reliance upon the Equipment Installation Contractor’s relationship with the Customer-Generator. 3) The Applicant shall notify JCP&L of any changes to the proposed Customer-Generator Facility that would be subject to the criteria for the Level of review (e.g., Electrical Contractor / Installer, 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 the Level of review that is not agreed to in writing by JCP&L, 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.

\*Customer-Generator Signature: \_\_\_\_\_ \*Date: \_\_\_\_\_

\*Printed Name: \_\_\_\_\_ \*Title: \_\_\_\_\_

Email Address: \_\_\_\_\_

**Conditional Approval to Interconnect Customer-Generator Facility: (for Use by JCP&L Only)**

The requested information is complete and interconnection of the Customer-Generator Facility is approved contingent upon the Terms and Conditions of this Agreement, the return of a duly executed Certificate of Completion, verification of electrical inspection, successful witness test or JCP&L waiver thereof and upon signature and return of this Part 1 or by notification by electronic mail or other acceptable means by JCP&L.

JCP&L Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Only submit this page for systems with: **Inverter Based Generation**

**Inverter Information:**

\*Manufacturer: \_\_\_\_\_

\*Model Number of Inverter: \_\_\_\_\_

\*Inverter Type; Select \_\_\_\_\_

\*Inverter Certification (check all that apply)    UL1741SA    UL1741SB    Other (Attach explanation)

\*Inverter Nameplate Rating: \_\_\_\_\_ kW (AC)        \_\_\_\_\_ Amps (AC)        \_\_\_\_\_

\*Number of Inverters: \_\_\_\_\_ Total of Inverter Nameplate Ratings: \_\_\_\_\_ kW.

**JCP&L's default specified settings file must be installed on all UL1741-SB certified inverters.**

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

**DC Source / Prime Mover:** Select

\*Total Source/Array Rating: \_\_\_\_\_ kW    Voltage Rating: \_\_\_\_\_ Volts    Current Rating: \_\_\_\_\_ Amps

Module Mfg. (if applicable): \_\_\_\_\_    Model Number: \_\_\_\_\_

Rated Voltage: \_\_\_\_\_ Volts        Open Circuit Voltage: \_\_\_\_\_ Volts        Number of Modules: \_\_\_\_\_

Rated Current: \_\_\_\_\_ Amps        Short Circuit Current: \_\_\_\_\_ Amps        Number of Strings: \_\_\_\_\_

Modules per String: \_\_\_\_\_

**Other Facility Information:**

\*One Line Diagram attached:  Yes

\*Plot Plan attached:  Yes

Other: \_\_\_\_\_

**Customer Signature**

I hereby certify that all of the information provided in this application request form is true.

\*Customer Generator Signature: \_\_\_\_\_

\*Title: \_\_\_\_\_

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

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  Yes    Amount: \$ \_\_\_\_\_

Only submit this page for systems with: **Synchronous Generation**

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

\*Manufacturer: \_\_\_\_\_

\*Model No. \_\_\_\_\_ Version No. \_\_\_\_\_

- Submit copies of the Saturation Curve and the Vee Curve

Salient  Non-Salient Torque: \_\_\_\_\_ lb-ft Rated RPM: \_\_\_\_\_

Field Amperes: \_\_\_\_\_ at rated generator voltage and current and \_\_\_\_\_% PF over-excited

Type of Exciter: \_\_\_\_\_

Output Power of Exciter: \_\_\_\_\_

Type of Voltage Regulator: \_\_\_\_\_

\*Locked Rotor Current: \_\_\_\_\_ Amps Synchronous Speed: \_\_\_\_\_RPM

Winding Connection: \_\_\_\_\_ Min. Operating Frequency \_\_\_\_\_ Hz / Time: \_\_\_\_\_

Generator Connection:  Delta  Wye  Wye Grounded

Direct-axis Synchronous Reactance ( $X_d$ ) \_\_\_\_\_  $\Omega$

Direct-axis Transient Reactance ( $X'_d$ ) \_\_\_\_\_  $\Omega$

Direct-axis Sub-transient Reactance ( $X''_d$ ): \_\_\_\_\_  $\Omega$

Negative Sequence Reactance: \_\_\_\_\_  $\Omega$  Zero Sequence Reactance: \_\_\_\_\_  $\Omega$

Neutral Impedance or Grounding Resister (if any): \_\_\_\_\_  $\Omega$

**Other Facility Information:**

\*One Line Diagram attached:  Yes

\*Plot Plan attached:  Yes

Other: \_\_\_\_\_

**Customer Signature**

I hereby certify that all of the information provided in this application request form is true.

\*Customer Generator Signature: \_\_\_\_\_

\*Title: \_\_\_\_\_

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

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  Yes Amount: \$\_\_\_\_\_

Only submit this page for systems with: **Induction Generation**

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

\*Manufacturer: \_\_\_\_\_  
\*Model No: \_\_\_\_\_ Version No: \_\_\_\_\_  
\*Locked Rotor Current: \_\_\_\_\_ Amps  
Rotor Resistance: ( $R_r$ ) \_\_\_\_\_  $\Omega$  Exciting Current: \_\_\_\_\_ Amps  
Rotor Reactance: ( $X_r$ ) \_\_\_\_\_  $\Omega$  Reactive Power Required: \_\_\_\_\_  
Magnetizing Reactance: ( $X_m$ ) \_\_\_\_\_  $\Omega$  \_\_\_\_\_ VARs (No Load)  
Stator Resistance: ( $R_s$ ) \_\_\_\_\_  $\Omega$  \_\_\_\_\_ VARs (Full Load)  
Stator Reactance: ( $X_s$ ) \_\_\_\_\_  $\Omega$   
Short Circuit Reactance: ( $X''_d$ ) \_\_\_\_\_ ohms  
Phases:  Single  Three-Phase  
Frame Size: \_\_\_\_\_ Design Letter: \_\_\_\_\_ Temp. Rise: \_\_\_\_\_  $^{\circ}\text{C}$ .

**Other Facility Information:**

\*One Line Diagram attached:  Yes \*Plot Plan attached:  Yes  
Other: \_\_\_\_\_

**Customer Signature**

I hereby certify that all of the information provided in this application request form is true.

\*Customer Generator Signature: \_\_\_\_\_  
\*Title: \_\_\_\_\_ \*Date: \_\_\_\_\_

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  Yes Amount: \$ \_\_\_\_\_



CERTIFICATE OF COMPLETION

For a Level 2 or 3 Interconnection Agreement \* Indicates Required Entry

Customer-Generator Information

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

\*Name:
\*Mailing Address:
\*City: \*State: \*Zip Code:
\*Contact Person (If other than above):
\*Mailing Address (If other than above):
Telephone (Daytime): (Evening):
Fax Number: \*Email Address:

The Customer-Generator Facility's Information:

\*Facility Address:
\*City: State: NJ \*Zip Code:
\*Nearest Crossing Street:
\*Account #: Meter #:
\*Energy Source: Select \*Rating kWAc or DC
\*Inverter Type; Select Type \*Inverter Rating: kWAc
\*Manufacturer:
\*Model Number of Inverter; \*Number of Inverters:
\*Check if JCP&L's Specified Inverter Settings were installed on all inverters?

Equipment Installation Contractor:

Check if owner-installed: ( )

Name:
Mailing Address:
City: State: Zip Code:
Contact Person (If other than Above):
Telephone (Daytime): (Evening):
Fax Number: Email Address:

The undersigned asserts that the Equipment has been installed in accordance with the Interconnection Application, all applicable codes and regulations and that JCP&L's Specified Inverter Settings have been programmed in all inverters installed.

Signed: Date:
Printed Name: Title:

**Electrical Contractor:** (if Different from Equipment Installation Contractor)

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact Person (if other than Above): \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

The undersigned asserts that the Equipment has been installed in accordance with 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 JCP&L 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 JCP&L.

Electric Distribution Company waives Witness Test? (Initial) Yes (\_\_\_\_) No (\_\_\_\_)

If no, Successful Witness Test Date: \_\_\_\_\_ Passed: (Initial) (\_\_\_\_)

Signed: \_\_\_\_\_ 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 JCP&L at the address in the Terms & Conditions for Interconnection.

**SPECIAL PROCEDURES FOR PARALLEL OPERATION**

(Special technical considerations for system protection, metering, data acquisition, etc. If None, so indicate.)

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**DESCRIPTION OF INTERCONNECTION FACILITIES**

**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 JCP&L’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: \_\_\_\_\_**

**4. Interconnection Facilities Description and Requirements: \_\_\_\_\_**

**5. Description of Metering Facilities: \_\_\_\_\_**

**6. Description of Telemetering Facilities: \_\_\_\_\_**

**7. Interconnection Protection Description and Requirements: \_\_\_\_\_**

**8. Generator maximum output capability (Megawatts): \_\_\_\_\_ MW**

**9. Milestones: \_\_\_\_\_**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**INTERCONNECTION FACILITIES COST ESTIMATE**

**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. JCP&L.

\_\_\_\_\_  
\_\_\_\_\_

**2. Cost breakdown:**

\$ _____	Direct Labor
\$ _____	Direct Material
\$ _____	Indirect Labor
\$ _____	Indirect Material
\$ _____	Total

**3. Security Amount Breakdown:**

	\$ _____	Estimated Cost of Distribution Upgrades
plus	\$ _____	Estimated cost of the work on the required Interconnection Facilities
less	\$ _____	Costs already paid by Customer-Generator
	\$ _____	Total Security required

**4. Estimated annual operation and maintenance expenses:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_