

**Level 2, Level 3 & Level 4  
Interconnection Request Application Form  
(Greater than 10 kVA to 10 MVA or less)**

**Interconnection Customer Contact Information**

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

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

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

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

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

Alternative Contact Information (if different from Customer Contact Information)

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

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

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

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

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

Facility Address (if different from above): \_\_\_\_\_

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

Account Number of Facility site: \_\_\_\_\_

Inverter Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

**Equipment Contractor**

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

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

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

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

Facsimile Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

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

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

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

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

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

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

License number: \_\_\_\_\_

**Electric Service Information for Customer Facility Where Generator Will Be Interconnected**

Capacity: \_\_\_\_\_(Amps) Voltage: \_\_\_\_\_(Volts)

Type of Service:  Single Phase  Three Phase

If 3 Phase Transformer, Indicate Type

Primary Winding  Wye  Delta

Secondary Winding  Wye  Delta

Transformer Size: \_\_\_\_\_ Impedance: \_\_\_\_\_

**Intent of Generation**

Offset Load (Unit will operate in parallel, but will not export power to Mt. Carmel Public Utility Co.

Net Meter (Unit will operate in parallel and will export power pursuant to Illinois Net Metering or other filed tariff(s))

Wholesale Market Transaction (Unit will operate in parallel and participate in PJM or MISO market(s) pursuant to a PJM Wholesale Market Participation Agreement or MISO equivalent)

Back-up Generation (Units that temporarily operate in parallel with the electric distribution system 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.

**Generator & Prime Mover Information**

ENERGY SOURCE (Hydro, Wind, Solar, Process Byproduct, Biomass, Oil, Natural Gas, Coal, etc.):		
ENERGY CONVERTER TYPE (Wind Turbine, Photovoltaic Cell, Fuel Cell, Steam Turbine, etc.):		
GENERATOR SIZE:  <input type="checkbox"/> kW or <input type="checkbox"/> kVA	NUMBER OF UNITS:	TOTAL CAPACITY:  <input type="checkbox"/> kW or <input type="checkbox"/> kVA
GENERATOR TYPE (Check one):  <input type="checkbox"/> Induction <input type="checkbox"/> Inverter <input type="checkbox"/> Synchronous <input type="checkbox"/> Other _____		

**Requested Procedure Under Which to Evaluate Interconnection Request<sup>1</sup>**

Please indicate below which review procedure applies to the interconnection request. The review procedure used is subject to confirmation by Mt. Carmel Public Utility Co.

- Level 2** – Lab-certified interconnection equipment with an aggregate electric nameplate capacity less than or equal to 2 MVA. Lab certified is defined in 466.30 (Application fee is \$100.00 plus \$1.00 per kVA).
- Level 3** – Distributed generation facility does not export power. Nameplate capacity rating is less than or equal to 50kVA if connecting to area network or less than or equal to 10 MVA if connecting to a radial distribution feeder. (Application fee amount is \$500.00 plus \$2.00 per kVA).
- Level 4** – Nameplate capacity rating is less than or equal to 10 MVA and the distributed generation facility does not qualify for a Level 1, Level 2 or Level 3 review or, the distributed generation facility has been reviewed but not approved under a Level 1, Level 2 or Level 3 review. (Application fee amount is \$1,000 plus \$2.00 per kVA, to be applied toward any subsequent studies related to this application).

<sup>1</sup> **Note:** Descriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to 83 Ill. Adm. Part 466, Electric Interconnection of Distributed Generation Facilities.

**Distributed Generation Facility Information**

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

List interconnection components/system(s) to be used in the distributed generation facility that are lab certified.

Component/System	NRTL Providing Label & Listing
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

*Please provide copies of manufacturer brochures or technical specifications*

**Energy Production Equipment/Inverter Information:**

Synchronous     Induction     Inverter     Other \_\_\_\_\_

Rating: \_\_\_\_\_ kW                      Rating: \_\_\_\_\_ kVA

Rated Voltage: \_\_\_\_\_ Volts

Rated Current: \_\_\_\_\_ Amps

System Type Tested (Total System):  Yes     No; attach product literature

**For Synchronous Machines:**

***Note: Contact Mt. Carmel Public Utility Co. to determine if all the information requested in this section is required for the proposed distributed generation 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 Freq./Time: \_\_\_\_\_

Generator Connection:  Delta     Wye     Wye Grounded

Direct-axis Synchronous Reactance (Xd) \_\_\_\_\_ ohms

Direct-axis Transient Reactance (X'd) \_\_\_\_\_ ohms

Direct-axis Sub-transient Reactance (X''d) \_\_\_\_\_ ohms

Negative Sequence Reactance: \_\_\_\_\_ ohms  
Zero Sequence Reactance: \_\_\_\_\_ ohms  
Neutral Impedance or Grounding Resister (if any): \_\_\_\_\_ ohms

**For Induction Machines:**

**Note: Contact Mt. Carmel Public Utility Co. to determine if all the information requested in this section is required for the proposed distributed generation facility.**

Manufacturer: \_\_\_\_\_  
Model No. \_\_\_\_\_ Version No. \_\_\_\_\_  
Locked Rotor Current: \_\_\_\_\_ Amps  
Rotor Resistance (Rr) \_\_\_\_\_ ohms Exciting Current \_\_\_\_\_ Amps  
Rotor Reactance (Xr) \_\_\_\_\_ ohms Reactive Power Required: \_\_\_\_\_  
Magnetizing Reactance (Xm) \_\_\_\_\_ ohms \_\_\_\_\_ VARs (No Load)  
Stator Resistance (Rs) \_\_\_\_\_ ohms \_\_\_\_\_ VARs (Full Load)  
Stator Reactance (Xs) \_\_\_\_\_ ohms  
Short Circuit Reactance (X"d) \_\_\_\_\_ ohms  
Phases:  Single  Three-Phase  
Frame Size: \_\_\_\_\_ Design Letter: \_\_\_\_\_ Temp. Rise: \_\_\_\_\_ °C.

**Reverse Power Relay Information (Level 3 Review Only)**

Manufacturer: \_\_\_\_\_  
Relay Type: \_\_\_\_\_ Model Number: \_\_\_\_\_  
Reverse Power Setting: \_\_\_\_\_  
Reverse Power Time Delay (if any): \_\_\_\_\_

**Additional Information For Inverter Based Facilities**

**Inverter Information:**

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Type:  Forced Commutated  Line Commutated  
Rated Output \_\_\_\_\_ Watts \_\_\_\_\_ Volts  
Efficiency \_\_\_\_\_% Power Factor \_\_\_\_\_%  
Inverter UL1741 Listed:  Yes  No

**DC Source / Prime Mover:**

Rating: \_\_\_\_\_ kW                      Rating: \_\_\_\_\_ kVA Rated

Voltage: \_\_\_\_\_ Volts

Open Circuit Voltage (If applicable): \_\_\_\_\_ Volts

Rated Current: \_\_\_\_\_ Amps

Short Circuit Current (If applicable): \_\_\_\_\_ Amps

**Other Facility Information:**

One Line Diagram attached:  Yes

Plot Plan attached:  Yes

**Customer Signature**

I hereby certify that all of the information provided in this Interconnection Request Application Form is true.

Applicant 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:

Amount: \_\_\_\_\_

**Conditional Agreement to Interconnect Distributed Generation Facility**

Receipt of the application fee is acknowledged and, by its signature below, Mt. Carmel Public Utility Co. has determined the interconnection request is complete. Interconnection of the distributed generation facility is conditionally approved contingent upon the attached terms and conditions of this Agreement, the return of the attached Certificate of Completion duly executed verification of electrical inspection and successful witness test.

Mt. Carmel Public Utility Co.

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

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

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

**Please mail the completed application to:**

Mt. Carmel Public Utility Co.  
PO Box 220  
Mt. Carmel, IL 62863

**For questions regarding application contact Mt. Carmel Public Utility Co.  
at: 618/262-5151**

**Terms and Conditions for Interconnection**

- 1) **Construction of the Distributed Generation Facility.** The interconnection customer may proceed to construct (including operational testing not to exceed 2 hours) the distributed generation facility, once the conditional Agreement to interconnect a distributed generation facility has been signed by Mt. Carmel Public Utility Co.
- 2) **Final Interconnection and Operation.** The interconnection customer may operate the distributed generation facility and interconnect with Mt. Carmel Public Utility Co.'s electric distribution system after all of the following have occurred:
  - a) **Electrical Inspection:** Upon completing construction, the interconnection customer shall cause the distributed generation facility to be inspected by the local electrical inspection authority who shall establish that the distributed generator facility meets local code requirements.
  - b) **Certificate of Completion:** The interconnection customer shall provide Mt. Carmel Public Utility Co. with a copy of the Certificate of Completion with all relevant and necessary information fully completed by the interconnection customer, as well as an inspection form from the local electrical inspection authority demonstrating that the distributed generation facility passed inspection.
  - c) Mt. Carmel Public Utility Co. has completed its witness test as per the following:
    - i) Within 10 business days of the commissioning date, Mt. Carmel Public Utility Co. must, upon reasonable notice and at a mutually convenient time, conduct a witness test of the distributed generation facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the applicable codes.
    - ii) If Mt. Carmel Public Utility Co. does not perform the witness test within the 10 business days of the commissioning date or such other time as is mutually agreed to by the parties, the witness test is deemed waived, unless Mt. Carmel Public Utility Co. cannot do so for good cause. In such cases, upon Mt. Carmel Public Utility Co.'s request, the interconnection customer shall agree to another date for the test within 10 business days of the original scheduled date.
- 3) **IEEE 1547.** The distributed generation facility shall be installed, operated and tested in accordance with the requirements of The Institute of Electrical and Electronics Engineers, Inc. (IEEE), 3 Park Avenue New York, NY 10016-5997, Standard 1547 (2003) "Standard for Interconnecting Distributed Resources with Electric Power Systems."

- 4) **Access.** Mt. Carmel Public Utility Co. shall have direct, unabated access to the disconnect switch and metering equipment of the distributed generation facility at all times. Mt. Carmel Public Utility Co. shall provide 5 business days' notice to the customer prior to using its right of access except in emergencies or routine observation.
- 5) **Metering.** Any required metering shall be installed pursuant to Illinois Commerce Commission approved tariffs.
- 6) **Disconnection.** Mt. Carmel Public Utility Co. may disconnect the distributed generation facility upon any of the following conditions, but must reconnect the distributed generation facility once the condition is cured:
  - a) For scheduled outages, provided that the distributed generation facility is treated in the same manner as Mt. Carmel Public Utility Co.'s load customers;
  - b) For unscheduled outages or emergency conditions;
  - c) If the distributed generation facility does not operate in the manner consistent with this Agreement;
  - d) Improper installation or failure to pass the witness test;
  - e) If the distributed generation facility is creating a safety, reliability or a power quality problem; or
  - f) The interconnection equipment used by the distributed generation facility is de-listed by the Nationally Recognized Testing Laboratory that provided the listing at the time the interconnection was approved.
  - g) Failure of customer to pay its bill within the rules set forth in Section 280.130.
- 7) **Indemnification.** The interconnection customer shall indemnify and defend the Mt. Carmel Public Utility Co. and the Mt. Carmel Public Utility Co.'s directors, officers, employees, and agents from all damages and expenses resulting from any third party claim arising out of or based upon the interconnection customer's (a) negligence or willful misconduct or (b) breach of this Agreement.
- 8) **Insurance.** The interconnection customer shall provide Mt. Carmel Public Utility Co. with proof that it has a current homeowner's or property loss insurance policy, or, other general liability policy, and, when possible, the interconnection customer shall name Mt. Carmel Public Utility Co. as an additional insured on its homeowner's or property loss insurance policy, or similar policy covering general liability.
- 9) **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct, damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
- 10) **Termination.** This Agreement may be terminated under the following conditions:
  - a) By interconnection customer - The interconnection customer may terminate this interconnection agreement by providing written notice to Mt. Carmel Public Utility Co. If the interconnection customer ceases operation of the distributed generation facility, the interconnection customer must notify the Mt. Carmel Public Utility Co.

- b) By Mt. Carmel Public Utility Co.- Mt. Carmel Public Utility Co. may terminate this Agreement if the interconnection customer fails to remedy a violation of terms of this Agreement within 30 calendar days after notice, or such other date as may be mutually agreed to prior to the expiration of the 30 calendar day remedy period. The termination date may be no less than 30 calendar days after the interconnection customer receives notice of its violation from Mt. Carmel Public Utility Co. Nothing herein shall limit Mt. Carmel Public Utility Co. from terminating this Agreement for safety reasons or for non-payment under Part 280.
- 11) **Modification of Distributed Generation Facility.** The interconnection customer must receive written authorization from Mt. Carmel Public Utility Co. before making any changes to the distributed generation facility that could affect Mt. Carmel Public Utility Co.'s distribution system. If the interconnection customer makes such modifications without Mt. Carmel Public Utility Co.'s prior written authorization, Mt. Carmel Public Utility Co. shall have the right to disconnect the distributed generation facility.
- 12) **Permanent Disconnection.** In the event the Agreement is terminated, Mt. Carmel Public Utility Co. shall have the right to disconnect its facilities or direct the interconnection customer to disconnect its distributed generation facility.
- 13) **Disputes.** Each party agrees to attempt to resolve all disputes regarding the provisions of this agreement that cannot be resolved between the two parties pursuant to the dispute resolution provisions found in 83 Ill. Adm. Part 466.130.
- 14) **Governing Law, Regulatory Authority, and Rules.** The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of Illinois. Nothing in this Agreement is intended to affect any other agreement between Mt. Carmel Public Utility Co. and the interconnection customer.
- 15) **Survival Rights.** This Agreement shall remain in effect after termination to the extent necessary to allow or require either party to fulfill rights or obligations that arose under the Agreement.
- 16) **Assignment/Transfer of Ownership of the Distributed Generation Facility.** This Agreement shall terminate upon the transfer of ownership of the distributed generation facility to a new owner unless the transferring owner assigns the Agreement to the new owner, the new owner agrees in writing to the terms of this agreement, and the transferring owner so notifies Mt. Carmel Public Utility Co. in writing prior to the transfer of ownership.
- 17) **Definitions.** Any term used herein and not defined shall have the same meaning as the defined terms used in 83 Ill. Adm. Part 466 (the Illinois Distributed Generation Interconnection Standard).
- 18) **Notice.** The parties may mutually agree to provide notices, demands, comments, or requests by electronic means such as e-mail. Absent agreement to electronic communication, or unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

**If to Interconnection Customer:**

Use the contact information provided in the interconnection customer's application. The interconnection customer is responsible for notifying Mt. Carmel Public Utility Co. of any change in the contact party information, including change of ownership.

**If to Mt. Carmel Public Utility Co.:**

Use the contact information provided below. Mt. Carmel Public Utility Co. is responsible for notifying the interconnection customer of any change in the contact party information.

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

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

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

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

Cell Phone Number: \_\_\_\_\_

Facsimile Number: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_