

Section 466.APPENDIX C – Levels 2 to 4 Application

**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: _____

Is the facility address the same as the Interconnection Customer's address? Yes. No.
[This question is added to make it easier for the users because if the answer is "Yes", the information is automatically populated. If the answer is "No", then complete the required information, same as the paper form.]

Facility Address (if different from above): _____

City: _____ State: _____ Zip Code: _____

What type of property is the distributed generation facility?
[This item is new. A pull down menu shows residential home or commercial business. This is added to have the ability to report on the data, if requested.]

Electric Distribution Company (EDC) Serving Facility Site: _____

Is ComEd the Electric Supplier for the Distributed Generation Facility? Yes No.
[If the answer is "No", then provide RES name, same as the paper form.]

Electric Supplier (if different from EDC):

Does the facility site have an existing account number with the EDC? Yes No.
[If the answer is "Yes", then provide the account number, same as the paper form.]

Account Number of Facility Site (existing EDC customers): _____

Is the distributed generation system located on the premise of a multi-meter account?
[This item is new. If the answer is "Yes", then need to provide the 9-digit meter number to which distributed generation will be connected. This is added because, for accounts with multiple meters, ComEd needs to know the specific meter to which DG is connected.]

Inverter Manufacturer: _____ Model: _____

Does the distributed generation system utilize a micro-inverter? Yes No.
[If the response is "Yes", then answer the next question.]

Quantity of Micro-Inverters utilized in Distributed Generation Facility.
[These are added because micro-inverters have become more common.]

Is the Interconnection Customer acting as the Equipment Contractor? Yes No.
[This question is added to make it easier for the users because if the response is "Yes", the information is automatically populated. If the response is "No", then complete the required information, same as the paper form.]

Equipment Contractor

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Is the Electrical Contractor different from the Equipment Contractor? Yes No.
[This question is added to make it easier for the users because if the response is "No", the information is automatically populated. If the response is "Yes", then complete the required information, same as the paper form.]

Electrical Contractor (if different from Equipment Contractor)

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

License Number: _____

Active License? Yes No.

[\[Adding this question seems reasonable because this question is in Appendix C \(the Level 1 form\).\]](#)

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 EDC)

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

Wholesale Market Transaction (Unit will operate in parallel and participate in PJM or MISO markets 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.

[\[If the net metering button is selected, the net metering requirements information is listed here. The user is asked to confirm net metering eligibility and that ComEd is the electricity supplier. If the user confirms, then the user is linked to the Net Metering application page.\]](#)

Generator & Prime Mover Information

ENERGY SOURCE (Hydro, Wind, Solar, Process Byproduct, Biomass, Oil, Natural Gas, Coal, etc.): [Pull down menu]		
ENERGY CONVERTER TYPE (Wind Turbine, Photovoltaic Cell, Fuel Cell, Steam Turbine, etc.): [Pull down menu]		
GENERATOR SIZE: kW or kVA [Pull down menu]	NUMBER OF UNITS:	TOTAL CAPACITY: kW or kVA [Pull down menu]

GENERATOR TYPE (Check one): [Pull down menu]			
Induction	Inverter	Synchronous	Other _____

Requested Procedure Under Which to Evaluate Interconnection Request¹

Please indicate below which review procedure applies to the interconnection request. The review procedure used is subject to confirmation by the EDC.

Level 2 – Lab-certified interconnection equipment with an aggregate electric nameplate capacity less than or equal to 2 MVA. Lab-certified is defined in Section 466.30. (Application fee is \$100 plus \$1.00 per kVA.)

Level 3 – Distributed generation facility does not export power. Nameplate capacity rating is less than or equal to 50 kVA 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 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.)

¹ **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. Code 466, Electric Interconnection of Distributed Generation Facilities.

Distributed Generation Facility Information

Commissioning Date: _____

List interconnection components/systems 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.

[The on-line application allows the user to attach electronic documents from computer.]

Energy Production Equipment/Inverter Type Information:

[Pull down menu. If select "Other" then a "Energy Production Information" field will appear.]

Synchronous Induction Inverter Other _____
 Rating: _____ kW Rating: _____ kVA
 Rated Voltage: _____ Volts
 Rated Current: _____ Amps
 System Type Tested (Total System): Yes No; ~~attach product literature~~

Attach product literature

[The on-line application allows the user to attach electronic documents from computer.]

For Synchronous Machines:

Note: Contact EDC 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 Type:

Salient Non-Salient

Torque: _____ lb/ft Rated RPM: _____ Field Amperes: _____ at rated
 voltage and current generator

and _____ % PF over-excited at rated generator voltage and current

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

[Pull down menu]

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 EDC 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

[\[Pull down menu\]](#)

Frame Size: _____ Design Letter: _____ Temp. Rise: _____ °C.
[\[In the on-line form, the unit "ohms" in several places \(highlighted in blue\) is changed to "per unit at rated kVA" because ComEd needs this type of unit to complete the review.\]](#)

Reverse Power Relay Information (Level 3 Review Only)

[Does the distributed generation system utilize Reverse Power Relay technology? Yes. No.](#)

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 _____
 [Pull down menu]
 Rated Output: _____ Watts _____ Volts
 Efficiency: _____ % Power Factor: _____ %
 Inverter UL 1741 Listed: Yes No

DC Source / Prime Mover:

Select the number of inverters attached to your distributed generation system (not micro-inverters)

[Pull down menu shows 1, 2, and 3]

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~~

The on-line application allows the user to attach electronic documents from computer.

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: _____~~ [Payment is necessary prior to the completion of the application.]

EDC Acknowledgement

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

EDC Signature: _____ Date: _____

Printed Name: _____ Title: _____