

Online Form Instructions

- For the purpose of ECI REC online forms, when the word "signature" appears, a typed, legal name is an acceptable substitute. As long as the complete, legal name appears in each blank for which a signature was requested, the form is accurate and binding (pending accurate completion of all other form sections). It is not necessary to print and sign the form if users plan on taking advantage of the "submit by email" option provided on the final page of each form.
- Some rebates may require the actual signature of mechanical engineers. ECI REC will follow-up with members applying for those rebates as necessary.
- Please do not fill out the "office only" sections of the form. Tab past them when filling out the form.
- Completed forms and required sales receipts or invoices may also be submitted to ECI REC via fax at (319) 443-4359. Please submit both the completed form and accompanying invoice(s) using the same method—fax or email—to ensure they arrive together at ECI REC.
- Fill-able PDF forms work in most all web browsers, *except* <u>Firefox</u>. Suggested web browsers to use when completing the forms are: Internet Explorer, Chrome, Safari, Android, etc.



East-Central Iowa Rural Electric Cooperative

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LEVELS 2 - 4 INTERCONNECTION REQUEST APPLICATION FORM

(For Distributed Generation Facilities 10 MVA or less)

INSTRUCTIONS:

- 1. *Indicates required information.
- 2. Mail completed form with application fee (see page 2) to East Central Iowa REC.

INTERCONNECTION MEMBER-CONSUMER CONTACT INFORMATION (Applicant must be owner or lessee of the facility)							
*Owner / Company (Legal Entity Name) * Contact Name							
* Mailing Address			* City			*State	*Zip
* Phone No. (Daytime) Phone No. (Evening) Facsimile N					* Email Address		
ALTERNATE CO	NTACT INFORMATIO	ON (If d	lifferent f	rom Mem	ber-Consume	r Contact I	nformation)
Owner / Company (Legal Entity	/ Name)			Contact Na	ame		
Mailing Address			City			*State	*Zip
Phone No. <i>(Daytime)</i>	Phone No. <i>(Evening)</i> Facsimile N				Email Address		
	FACILITY LOCAT	ION (If	different	from info	rmation above)	
* Facility Address or Latitude ar	nd Longitude		* City			*State	*Zip
* Cooperative serving Facility S	Site Account Number	of Facility	Site <i>(existii</i>	ng member-c	onsumers) Mete	er No. (existing	member-consumers)
	EQ	UIPMEN	IT CON	FRACTOF	२		
* Company Name				* Contact N	lame		
* Mailing Address			* City	*State *Zip			*Zip
* Phone No. <i>(Daytime)</i>	Phone No. (Evening)	Facsim	ile No.	* Email Address			·
ELECTRICAL CONTRACTOR (If different from Equipment Contractor)							
*Owner / Company Name				* Contact Name			
* Mailing Address			* City			*State	*Zip
* Phone No. <i>(Daytime)</i>	Phone No. (Evening)	Facsim	ile No.		* Email Address		
License No. (If applicable) Active License? (If applicable) Yes No							

APPLICANT OWNERSHIP INTEREST (check one)						
Owner Lease 3 rd Party PPA Other (Please Explain)						
THIRD PARTY INFORMATION (Only complete this section if the facility is to be located on the premise of someone other than the applicant)						
Location of Proposed Facility	Name of Customer	at said location				
* Mailing Address	* City					
* Phone No. (Daytime) Phone No. (Evening) *State *Zip						
ELECTRIC SERVICE INFORMATION FOR MEMBER BE INTERC	R-CONSUMER FACIL	ITY WHERE GENER	ATOR WILL			
*Capacity (Service Entrance): Voltage: (Vol	* Type of Service					
(Amps) (Voltage:(e Three-Phase	<u> </u>			
Primary Winding: Wye Delta Secondary Winding: W			6			
	DATION (shock and					
Offset Load (Unit will operate in parallel, but will not export pow	RATION (check one)		e will not			
purchase any portion of the generation facility output and Attack	nment 2 is not applicable)					
Self-Use and Sales to the Cooperative (Unit will operate in para Cooperative's tariff and a separate power purchase agreement	Ilel and may export and sell e to be executed by the parties	xcess power to Cooperative p	oursuant to the			
Wholesale Market Transaction (Unit will operate in parallel and participate in MISO, SPP, or other wholesale power markets pursuant to separate requirements and agreements with MISO, SPP, or other transmission providers, and applicable rules of the Federal Energy Regulatory Commission) Back-up Generation (Units that temporarily operate in parallel with the electric distribution system for more than 100 milliseconds)						
(Note: Back-up units that do not operate in parallel for more that	an 100 milliseconds do not ne	ed an interconnection agreem	ient.)			
Sale of generation output to Member-Consumer upon whose pr Cooperative, which sales may require a separate point of interc			power to the			
Other: (Please Explain):						
*GENERATOR AND PRIM	IE MOVER INFORM	ATION				
Energy Source	o 🗌 Oil 🔲 Natural Gas	Coal Other				
If Solar: Number of Inverters Number of Panels	_ Tilt (degrees)	Azimuth (180° is South facing	g)			
Array Type:						
Energy Converter Type						
U Wind Turbine Photovoltaic Cell Fuel Cell Reciprocating Engine Other						
Generator #1 Size: Generator #1 Nameplate Rating (AC): Generator #2 Size: Generator #2 Nameplate Rating (AC):						
(kW)(kVA)(kW)	(kW) (kV	A)((kW)			
Generator #3 Size: Generator #3 Nameplate Rating (AC):	Total Number of Units:	Total Capacity of All Genera				
(kW)(kVA) (kW) Disconnection Device: Identify type and location of disconnection device:		(kW)	(kVA)			
Is the generation facility a qualifying facility as defined under Public Utilities Regulatory Policy Act (18 CFR Part 292, Subpart B)?						

* REQUESTED PROCEDURE UNDER WHICH TO EVALUATE INTERCONNECTION REQUEST (check one)						
Please indicate below which review procedure applies to the interconnection request. The review procedure used is subject to confirmation by the Cooperative.						
Level 2 - Lab-certified interconnection equipment with an aggregate electric nameplate capacity less than or equal to 150 kVA. Lab-certified is defined in Iowa Utilities Board Chapter 45 rules on Electric Interconnection of Distributed Generation Facilities (199 IAC 45.1). (Application fee is \$375 plus \$1.00 per kVA.	d					
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 150 kVA 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.)						
Note: Descriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to the Cooperative's tariff.						

DISTRIBUTED GENERATION FACILITY INFORMATION

If the Commissioning Test Date changes, the interconnection member- ed date. Notice must be at least 15 business days prior to the test date.)
eration facility that are lab-certified.
NRTL Providing Label and Listing

Please provide copies of the manufacturer brochures or technical specifications.

*ENERGY PRODUCTION EQUIPMENT/INVERTER INFORMATION							
Induction	Inverter	Synchronous	Other			_	
Rating		Rating		*Rated Voltage		* Rated Current	
	(kW)		(kVA)		Volts		Amps
* System Type Tested? (Total System): Yes No <i>(attach product literature)</i>							

*FOR SYNCHRONOUS MACHINES							
Note: Contact Cooperative to determine if all the information requested in this section is required for the proposed distributed generation facility.							
Manufacturer:							
* Model No:		×	* Version No.	S	Submit Copies of the Saturation Curve and Vee Curve		
					Salient 🗌 N	Ion-Salient	
Torque (lb-ft)	Rated RPM		Field Amperes				
			at rated generator	voltage a	nd current and	% PF over-excited	
Type of Exciter		(Output Power of Exciter	Т	ype of voltage reg	ulator	
Locked Rotor Current (Amps) Syn		Synch	nchronous Speed (RPM) V		Connection	Minimum Operating Frequency/Time	
Generator Connection							
Delta Wye Wye Grounded					Wye Grounded		
Direct-axis Synchronous Reactance (Xd)			Direct-axis Transient Reactance (X'd)		Direct-axis Sub-Transient Reactance (X'd)		
(ohms)			(ohms)		(ohms)		
Negative Sequence Reactance			Zero Sequence Reactance		Natural Impedance or Grounding Resister (if any)		
(ohms)			(ohms)		(ohms)		

*FOR INDUCTION MACHINES					
Note: Contact Cooperative to dete	rmine if all the inf	ormation requested i	n this section is required f	or the proposed	distributed generation facility.
Manufacturer: Model No.					
* Version No. Locked Rotor Current (Amps)					
Rotor Resistance (Rr)	Exciting Curren	t	Rotor Resistance (Xr) Re		Reactive Power Required
(ohms)	(Amps)		(ohms)		
Magnetizing Reactance (Xm)	VARS (No Loa	d)	Stator Resistance (Rs)	'	VARS (Full load)
(ohms)				_ (ohms)	
Stator Reactance (Xs)		Short Circuit Reacta	ance (Xd)	Phases	
(ohm		(ohms)		nase 🗌 Three-Phase	
Frame Size		Design Letter			Temp Rise (°C)

REVERSE POWER RELAY INFORMATION (LEVEL 3 REVIEW ONLY)					
Manufacturer:		Model No.			
Relay Type:	Reverse Power Setting	Reverse Power Time Delay <i>(if any)</i>			

*FOR INVERTER-BASED MACHINES						
Inverter Information						
Manufacturer:			Model N	No.		
Туре		Rated Outp	out			
Forced Commutated Line Com		WattsVolts				
Efficiency (%) Power Factor (%)			Inverter UL 1741 Listed			
			☐ Yes ☐ No			
	DC Sour	ce/Prime Mov	er			
Rating Rating		Rated Voltage		Open Circuit Voltage (if applicable)		
(kW)	(kVA)		Volts	Volts		
Rated Current (Amps)	Short Circuit Curre	nt <i>(if applicable)</i> (Am	nps)			

***OTHER FACILITY INFORMATION**

One-Line Diagram - A basic drawing of an electric circuit in which one or more conductors are represented by a single line and each electrical device and major component of the installation, from the generator to the point of interconnection, are noted by symbols.

One-Line Diagram attached: 🗌 Yes

Plot Plan - A map or sketch showing the distributed generation facility's location in relation to streets, alleys, or other geographic markers (i.e. section pin, corner pin, buildings, permanent structures, etc.).

Plot Plan attached: Yes

*MEMBER-CONSUMER SIGNATURE

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

Applicant Signature (signature must reflect Contact Name under section Interconnection Applicant Contact Information) Date:

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Printed Name:

Title:

An application fee is required before the application can be processed. Pleas appropriate fee is included with the application (see page 2):	Amount \$				
FOR COOPERATIVE USE ONLY					
Date Received:	Project ID:				
*COOPERATIVE ACKNOWLEDGEMENT					
Receipt of the application fee is acknowledged and this interconnection request is complete.					
Cooperative Representative's Signature	Date				
Printed Name:	Title:				

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