

# 10 kW Inverter Process



14935 US Hwy 36, P. O. Box 360, Norton, KS 67654  
PrairieLandElectric.com • 1-800-577-3323



Pages 4, 5 & 12 must be filled out and returned with \$100 processing fee.

## **Application, Procedures and Terms and Conditions for Interconnecting a Certified Inverter Based Small Generating Facility No Larger than 10 kW**

- 1.0 The Interconnection Customer (“Customer”) Completes the Interconnection Request (“Application”) and submits it to the Transmission Provider (“Company”).
- 2.0 The Company acknowledges to the Customer receipt of the Application within three Business Days of receipt.
- 3.0 The Company evaluates the Application for completeness and notifies the Customer within ten Business Days of receipt that the Application is or is not complete and, if not, advises what material is missing.
- 4.0 The Company verifies that the Small Generating Facility can be interconnected safely and reliably using the screens contained in the Fast Track Process in the Small Generator Interconnection Procedures (SGIP). The Company has 15 Business Days to complete this process. Unless the Company determines and demonstrates that the Small Generating Facility cannot be interconnected safely and reliably, the Company approves the Application and returns it to the Customer. Note to Customer: Please check with the Company before submitting the Application if disconnection equipment is required.
- 5.0 After installation, the Customer returns the Certificate of Completion to the Company.; Prior to parallel operation, the Company may inspect the Small Generating Facility for compliance with standards which may include a witness test, and may schedule appropriate metering replacement, if necessary.
- 6.0 The Company notifies the Customer in writing that interconnection of the Small Generating Facility is authorized. If the witness test is not satisfactory, the Company has the right to disconnect the Small Generating Facility. The Customer has no right to operate in parallel until a witness test has been performed, or previously waived on the Application. The Company is obligated to complete this witness test within ten Business Days of the receipt of the Certificate of Completion. If the Company does not inspect within ten Business Days or by mutual agreement of the Parties, the witness test is deemed waived.

- 7.0 Contact Information -- The Customer must provide the contact information for the legal applicant (i.e. the Interconnection Customer). If another entity is responsible for interfacing with the Company, that contact information must be provided on the Application.
- 8.0 Ownership Information -- Enter the legal names of the owner(s) of the Small Generating Facility. Include the percentage ownership (if any) by any utility or public utility holding company, or by any entity owned by either.
- 9.0 UL1741 Listed -- This standard (“Inverters, Converters, and Controllers for Use in Independent Power Systems”) addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL1741. This “listing” is then marked on the equipment and supporting documentation.
- 10.0 Customer must provide a one line diagram of the solar installation.
- 11.0 Customer must provide a lockable AC disconnect at the meter location.

## **Application for Interconnecting a Certified Inverter-Based Small Generating Facility No Larger than 10 kW**

This application is considered complete when it provides all applicable and correct information required below. Additional information to evaluate the Application may be required. Per SGIP section 1.5, documentation of site control must be submitted with the Interconnection Request.

### **Processing Fee**

A non-refundable processing fee of \$100 must accompany this Application.

### **Interconnection Customer**

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

Contact Person: \_\_\_\_\_

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

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

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

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

### **Contact** (If different from Interconnection Customer)

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

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

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

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

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

Owner of the facility (include % ownership by any electric utility): \_\_\_\_\_

### **Small Generating Facility Information**

Location (if different from above): \_\_\_\_\_

Electric Service Company: \_\_\_\_\_

Account Number: \_\_\_\_\_

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

Nameplate Rating: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ (AC Volts)  
Single Phase \_\_\_\_\_ Three Phase \_\_\_\_\_

System Design Capacity: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA)

Prime Mover:  Photovoltaic  Reciprocating Engine  Fuel Cell

Turbine  Other \_\_\_\_\_

Energy Source:  Solar  Wind  Hydro  Diesel  Natural Gas

Fuel Oil  Other (describe) \_\_\_\_\_

Is the equipment UL1741 Listed?  Yes  No

If Yes, attach manufacturer's cut-sheet showing UL1741 listing.

Have provided a one-line diagram of solar system with the AC disconnect at meter location?:

Yes  No

Estimated Installation Date: \_\_\_\_\_ Estimated In-Service Date: \_\_\_\_\_

List components of the Small Generating Facility equipment package that are currently certified:

	Equipment Type	Certifying Entity
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

### **Interconnection Customer Signature**

I hereby certify that, to the best of my knowledge, the information provided in this Application is true. I agree to abide by the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than 10kW and return the Certificate of Completion when the Small Generating Facility has been installed.

Signed: \_\_\_\_\_

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

## Contingent Approval to Interconnect the Small Generating Facility

(For Company use only)

Interconnection of the Small Generating Facility is approved contingent upon the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than 10 kW and return of the Certificate of Completion.

Company Signature: \_\_\_\_\_

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

Application ID number: \_\_\_\_\_

Company waives inspection/witness test?       Yes       No

## Small Generating Facility Certificate of Completion

As a condition of interconnection, you are required to send a copy of this form along with a copy of the signed electrical permit to:

**Prairie Land Electric Cooperative, Inc.**  
**14935 US Hwy 36, P.O. Box 360**  
**Norton, KS 67654**  
**ple@ple.coop**  
**P. 1.800.577.3323**  
**F. 785.874.4733**

Is the Small Generating Facility owner-installed?  Yes  No

Interconnection Customer: \_\_\_\_\_

Contact Person: \_\_\_\_\_

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

Location of Small Generating Facility (if different from above):

\_\_\_\_\_

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

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

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

### **Electrician**

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

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

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

Telephone (Day): \_\_\_\_\_ (Evening): \_\_\_\_\_

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

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

Date Approval to Install Facility granted by the Company: \_\_\_\_\_

Application ID number: \_\_\_\_\_

**Inspection**

The Small Generating Facility has been installed and inspected in compliance with the local building/electrical code of : \_\_\_\_\_

Signed: \_\_\_\_\_  
(Local electrical wiring inspector, or attach signed electrical inspection):

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

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**Approval to Energize the Small Generating Facility** (For Company use only)

Energizing the Small Generating Facility is approved contingent upon the Terms and Conditions for Interconnecting an Inverter-Based Small Generating Facility No Larger than 10 kW.

Company Signature: \_\_\_\_\_

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



# **Terms and Conditions for Interconnecting an Inverter Based Small Generating Facility No Larger than 10 kW**

## **1.0 Construction of Facility**

The Interconnection Customer (the “Customer”) may proceed to construct (including operational testing not to exceed two hours) the Small Generating Facility when the Transmission Provider (the “Company”) approves the Interconnection Request (the “Application”) and returns it to the Customer.

## **2.0 Interconnection and Operation**

The Customer may operate Small Generating Facility and interconnect with the Company’s electric system once all of the following have occurred.

- 2.1 Upon completing construction, the Customer will cause the Small Generating Facility to be inspected or otherwise certified by the appropriate local electrical wiring inspector with jurisdiction, and
- 2.2 The Customer returns the Certificate of Completion to the Company, and
- 2.3 The Company has either:
  - 2.3.1 Completed its inspection of the Small Generating Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes. All inspections must be conducted by the Company, at its own expense, within ten business Days after receipt of the Certificate of Completion and shall take place at a time agreeable to the Parties. The Company shall provide a written statement that the Small Generating Facility has passed inspection or shall notify the Customer of what steps it must take to pass inspection as soon as practicable after the inspection takes place; or
  - 2.3.2 If the Company does not schedule an inspection of the Small Generating Facility within ten business days after receiving the Certificate of Completion, the witness test is deemed waived (unless the Parties agree otherwise); or
  - 2.3.3 The Company waives the right to inspect the Small Generating Facility.
- 2.4 The Company has the right to disconnect the Small Generating Facility in the event of improper installation or failure to return the Certificate of Completion.
- 2.5 Revenue quality metering equipment must be installed and tested in accordance with applicable ANSI standards.

### 3.0 **Safe Operation and Maintenance**

The Customer shall be fully responsible to operate, maintain and repair the Small Generating Facility as required to ensure that it complies at all times with the interconnection standards to which it has been certified.

### 4.0 **Access**

The Company shall have access to the disconnect switch (if the disconnect switch is required) and metering equipment of the Small Generating Facility at all times. The Company shall provide reasonable notice to the Customer when possible prior to using its right of access.

### 5.0 **Disconnection**

The Company may temporarily disconnect the Small Generating Facility upon the following conditions:

5.1 For scheduled outages upon reasonable notice.

5.2 For unscheduled outages or emergency conditions

5.3 If the Small Generating Facility does not operate in the manner consistent with these Terms and Conditions.

5.4 The Company shall inform the Customer in advance of any scheduled disconnection, or as is reasonable after an unscheduled disconnection.

### 6.0 **Indemnification**

The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees and all other obligation by or to third parties, arising out of or resulting from the other Party's action or inactions of its obligations under this agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

### 7.0 **Insurance**

The Parties agree to follow all applicable insurance requirements imposed by the state in which the Point of Interconnection is located. All insurance policies must be maintained with insurers authorized to do business in that state.

### 8.0 **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, except as allowed under paragraph 6.o.

## 9.0 **Termination**

The agreement to operate in parallel may be terminated under the following conditions

### 9.1 **By the Customer**

By providing written notice to the Company

### 9.2 **By the Company**

If the Small Generating Facility fails to operate for any consecutive 12 month period or the Customer fails to remedy a violation of these Terms and Conditions.

### 9.3 **Permanent Disconnection**

In the event this Agreement is terminated, the Company shall have the right to disconnect its facilities or direct the Customer to disconnect its Small Generating Facility.

### 9.4 **Survival Rights**

This Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.

## 10.0 **Assignment/Transfer of Ownership of the Facility**

This Agreement shall survive the transfer of ownership of the Small Generating Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.

## Member Service Rider Election

The undersigned member certifies the receipt and review of Cooperative's service riders available and applicable to the interconnection of Member's renewable generation. Member understands that in addition to the specific provisions of the service rider selected below, the interconnection is governed by the terms of the Cooperative's bylaws and rules and regulations. After review of the available riders, Member elects to interconnect under the terms of: (check one)

\_\_\_\_\_ Parallel Generation Rider:

Schedule: **PGR**

\_\_\_\_\_ Parallel Generation Rider-Renewable Generation

Schedule: **PGR-RG**

\_\_\_\_\_ Net Metering Rider:

Schedule: **NMR**

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
Prairie Land Electric Cooperative, Inc.

\_\_\_\_\_  
Member