

This guide covers most types of DG facilities within the Reedsburg Utility Commission service areas:

- Inverter based systems predominately solar PV
- Synchronous or induction motor systems wind generation, standard fossil-fuel based motor generators.
- Other types will be reviewed as encountered.

These guidelines are intended to be consistent with the requirements of the current versions of:

- <u>PSC 119</u> Rules for Interconnection Distributed Generation Facilities
- Wisconsin Standard Distributed Generation
 Application Form (generation up to 15 MW)

- Appropriate Supplemental Form:
 - Solar Generator
 - Wind Turbine Energy Storage
- **PSC 6029** Distributed Generation Interconnection Agreement (20 kW or less)
- **PSC 6030** Distributed Generation Interconnection Agreement (greater than 20 kW to 15 MW)
- Reedsburg Utility Commission Pgs-1, Parallel Generation
 (20 kW or less) Net Energy Billing Rate Schedule
- Reedsburg Utility Commission Pgs-2, Customer-Owned Generation Systems (greater than 20 kW) – Rate Schedule

The "20 kW" rating shall be the AC rating of the generator or inverter.



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At Reedsburg Utility Commission, we join forces with other local, not-for-profit utilities through WPPI Energy to share resources and lower costs.

A. INTERCONNECTION CLASSIFICATIONS

- Parallel Generation (20 kW or less) Net Energy Billing (see Pgs-1 Rate Schedule). Customers that qualify for this rate schedule are metered and billed under a net energy basis. The revenue meter records all energy delivered and all energy received from the DG facility during the billing period. Some meters may provide only the net energy consumed rather than totals for energy flow in both directions.
- 2. Customer-Owned Generation Systems (greater than 20 kW) (see Pgs-2 Rate Schedule). Customers that qualify for this rate schedule are metered and billed for all energy consumed at their retail rate and receive a credit for all energy delivered to the utility. The revenue meter records all on/off peak energy delivered to and all on/off peak energy received from the facility during the billing period.

B. APPLICATION PROCESS FOR DISTRIBUTED GENERATION FACILITIES

The applicants and the utility shall complete the following steps regarding interconnection applications:

1. Application process for interconnecting DG facilities

- a. The utility shall respond to each request for DG interconnection by furnishing the following documents within 5 working days:
 - PSC 119 DG interconnection rules
 - Customer guidelines for DG interconnection
 - Wisconsin Standard Distributed Generation
 - Application form (up to 15 MW)
 - Technology supplement form
 - Sample one-line schematic diagrams
- b. The applicant shall complete and submit the application and appropriate supplement forms to the utility. The utility may collect the application review fees in the Application Review table below, unless the utility chooses to waive them.

The application shall include the following:

- Completed application and technology supplement forms
- Site plan that shows:
 - Street address of DG facility
 - Adjoining street name
 - Electric service entrance
 - Electric meter
 - Interface equipment
 - Location of major equipment
 - Location of interconnect disconnect switch (if required)
- One-line wiring diagram shall include:
 - Generator or inverter
 - Point where DG facility is electrically connected to the customer's electrical system
 - Point of common coupling
 - Lockable interconnection disconnect switch (outside, if required)
 - Method of grounding, including generator and transformer ground connections
 - Protection function and systems
- Proof of adequate liability insurance coverage or proof of financial responsibility by another means agreeable with utility. Coverages shown in the Liability Insurance table below.
- Within 10 working days of receiving a new or revised application, the utility shall notify the applicant whether the application is complete.
- Within 10 working days of determining that the application is complete, the utility shall complete its application review.
- If the utility determines, based on application review, that an engineering review is needed, it shall notify the applicant and state the cost of the review. The applicant has 15 working days to provide written notification to

APPLICATION REVIEW				
DG Facility Size	Fee			
Category 1 (≤20 kW _{AC})	\$150 (1-8kW), \$300 (9-20kW)			
Category 2 (>20 kW _{AC} and ≤200 kW _{AC})	\$300 + \$10/kW			
Category 3 (>200 kW _{AC} and ≤1 MW _{AC})	\$2000 + \$2/kW			
Category 4 (>1 MW _{AC} and ≤15 MW _{AC})	\$4000 + \$0.50/kW			

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DG Facility Size	Minimum Coverage*	
Category1 (≤20 kW _{AC})	\$300,000	
Category 2 (>20 kW _{AC} and ≤200 kW _{AC})	\$1,000,000	
Category 3 (>200 kW _{AC} and ≤1 MW _{AC})	\$2,000,000	
Category 4 (>1 MW _{AC} and ≤15 MW _{AC})	Negotiable	

^{*}Utility shall be named as an additional insured party in the liability insurance policy for Category 2 - 4.

proceed and full payment of the estimated review cost. If the application review shows that an engineering review is not needed, the applicant is notified and may proceed with installation of the DG facility.

2. Engineering review/study process

- a. Upon receiving from the applicant written notification to proceed and receipt of applicable payment from the applicant, the utility shall complete an engineering review and notify the applicant of the results within 10 40 working days (see PSC 119.04(4)(c)).
 Limits shown in the Engineering Review table below.
- b. If the engineering review indicates that a distribution system study is necessary, the utility shall include, in writing, a cost estimate in its engineering review (see PSC 119.04(4)(e)). Upon receiving written notification to proceed and payment of the applicable fee, the utility shall conduct the distribution system study within 10 60 working days. Limits shown in the Distribution System Study table below.
- c. Upon completion of the distribution study, the utility shall notify the applicant of findings along with any distribution system construction or modification costs to be paid by the applicant.
- d. If the applicant agrees, in writing, to pay for any required distribution system construction or modifications, the utility shall complete the distribution system upgrades and the applicant shall install the DG facility.

C. INTERCONNECTION PROCESS FOR DISTRIBUTED GENERATION FACILITIES

1. System Testing

a. Upon completion of the DG facility, the applicant shall give the utility the opportunity to witness or

verify the system testing, as required in PSC 119.30 or 119.31. The utility may collect the respective commissioning fee shown in the table below. Upon receiving notification that an installation is complete, the utility has **10 working days** for Category 1 and 2 projects and **20 working days** for Category 3 and 4 projects to complete the following:

- Witness commissioning tests.
- Perform an anti-islanding test or verify the protective equipment settings at its expense.
- Waive its right, in writing, to witness or verify the commissioning tests.
 - b. The applicant shall provide the utility with the results of any required tests.
 - c. The utility may review the results of the on-site tests and shall notify the applicant within 5 working days, for a Category 1 or within 10 working days for Category 2 to 4 projects, of its approval or disapproval of the interconnection.
 - d. If approved, the utility shall provide a written statement of final acceptance and cost reconciliation.
 - e. If the utility does not approve the interconnection, the applicant may take corrective action and request the public utility to reexamine its interconnection request.

2. Interconnection Agreement

 Upon approval of the interconnection, standard interconnection agreement, PSC 6029 or PSC 6030, shall be signed by the applicant and the utility before parallel operation commences.

		ENGINEERING REVIEW	DISTRIBUTION SYSTEM STUDY	COMMISSIONING
System Size	Time Limit*	Fee	Fee	Fee***
Category1 (≤20 kW _{AC})	10 Days	Cost based**	Cost based**	\$150
Category 2 (>20 kW _{AC} and ≤200 kW _{AC})	15 Days	Cost based**	Cost based**	\$250
Category 3 (>200 kW _{AC} and ≤1 MW _{AC})	20 Days	Cost based**	Cost based**	\$1,000
Category 4 (>1 MW _{AC} and ≤15 MW _{AC})	40 Days	Cost based**	Cost based**	\$2,500

^{*}Time Limit is working days

^{**} Fee is utility staff time and/or professional services

^{***}This fee can be up to the amount shown

PROCESS FLOW CHART FOR INTERCONNECTING DG FACILITIES

