



Distributed Generation (DG) Process Highlights

First and foremost, Pierce Pepin will emphasize:

1. **Safety.** Taking all necessary precautions to ensure the safety of Pierce Pepin’s employees, members and others.
2. **Reliability.** Performing necessary tasks to protect and maintain the reliability and integrity of the power distribution grid.
3. **Cost Fairness.** Operating with fairness to other members of Pierce Pepin from a cost causation point of view.

Member / Pierce Pepin Responsibilities

- Pierce Pepin and the member must work together to safely connect the distributed generation equipment to the power distribution grid.
- The member must follow the National Electric Code (NEC) and any applicable federal and/or state laws or regulations regarding the installation of their DG system.
- An executed DG interconnection agreement between Pierce Pepin and the member is required to facilitate a safe, reliable and fair connection of the facility to the grid.

Process	Required	Responsibility
Completed & signed application & fee	Yes	Member
Insurance & documentation	Yes	Member
Signed Interconnection Agreement	Yes	Pierce Pepin & Member
Interconnection wiring	Yes	Master Electrician & Pierce Pepin
Interconnection Costs	Yes	Member
System Commissioning	Yes	Pierce Pepin
Annual Inspection – Anti-islanding test	Yes	Pierce Pepin
Service, Maintenance	Yes	Member

NET Metering

Pierce Pepin allows NET metering for any DG system 20 kW_{ac} or less name-plate rating. NET metering is when excess energy (*energy produced above the Member’s own usage*) is credited back to the homeowner. The homeowner realizes the benefit of lowering their energy bill by some variable amount each month. Any excess energy produced in a month is banked and, if required, is used to pay off energy used for that month. At the end of the year, any banked kWhs are credited back to the Member at “*avoided cost*” which is based on the average wholesale rate for the previous 12 months. If there is an off-peak meter, the banked kWhs will be credited back to the Member at the average off-peak rate of the previous 12-month period.

List of Specific Requirements

1. Completed Distributed Generation (DG) application including the following items:

- a. \$200 application fee due at submission.
- b. Proof of insurance coverage –
 - a minimum \$500,000.00 liability insurance coverage is required
 - Pierce Pepin listed as “*additional insured*”
 - a minimum 30-day notice of cancellation clause
- c. A *site plan drawing* showing the following:
 - DG unit
 - inverter
 - building & other structures
 - main electrical meter
 - street address of the DG facility
 - interconnection disconnect switch
 - located near main meter
 - drawing scale or footages between key components
- d. A *schematic diagram* of the total system.
- e. A DG production meter socket is required to meter the total output (*generation*) of the DG equipment –
 - Pierce Pepin provides the production meter and currently there is no charge and no monthly fee for this meter
- f. Technical specifications of the power quality protective systems, unless the inverter is *UL 1741* and/or *IEEE 1547* compliant then a company document confirming compliance is all that is required.
 - over/under voltage
 - over/under frequency
 - ground fault protection
 - over-current protection
 - over-current protection
 - loss of synchronism
 - power factor

2. The following items are required at the time of the “*DG System Commissioning*”:

- a. The interconnection disconnect switch shall be labeled “*Interconnection Disconnect Switch*” by means of a permanently attached sign with clearly visible and permanent letters.
 - *This switch will be wired with Pierce Pepin’s “grid” on the line side (top) and the DG system wired on the load side (bottom).*
- b. Installation of an equipment grounding conductor between the DG equipment and Pierce Pepin’s distribution system.
 - *in addition to the ungrounded conductors*
- c. Signed DG Interconnection Agreement
 - *provided by Pierce Pepin; signed by the Member and Pierce Pepin*
- d. Signed DG Wiring Compliance Certificate
 - *Due before commissioning test will be scheduled*
- e. *Anti-islanding test.* Verification that the DG facility will automatically disconnect from Pierce Pepin’s distribution system in the event station power is lost thus protecting line workers and neighbors against an energized distribution system during restoration work.