

THE FRONTIER POWER COMPANY

Residential self-generation summary

- A. Self generation for own use can be undertaken in Coop territory. Under Cooperative Policy 310 this generation can be run in parallel with the utility system. Running in parallel will create risk to both the public and utility workers if the system is not installed or maintained correctly or if there is a failure.
- B. The following options may be considered by the home-owner.
 - a. **Standby generation:** The generator will be run as for standby purposes, a change-over switch is required to ensure that the generator and utility supply never operate in parallel.
 - b. **Independent operation:** The generator will supply an independent system, not connected to the utility system, no connection being able to be made between these two.
 - c. **Generator:** The generator may be connected directly to the Utility System. This energy will be sold to Buckeye Power, the generation utility, if the generator is greater than 25kW or if annual generation is desired to exceed consumption at that connection. The member shall be termed a Generator and sell the power to Buckeye power and comply with the rules of a generation site. All generation will be metered at the generation rate.
 - d. **Load reduction:** The generator can be connected behind the meter and supply the customer's load in parallel with the utility system. The generator will need specific protection to ensure that the generator disconnects in the case of system faults. A single meter shall be installed to meter all energy consumed by the Member. The rate shall be the standard Residential Rate. Should the Member generate energy at any time greater than the consumption, then energy back to the system shall not be metered.
 - e. **Net-billing:** Net-billing can be established, allowing the member to sell excess generation to the utility. This option is only applicable to facilities where annual generation will be less than annual consumption. The generator will need specific protection to ensure that the generator disconnects in the case of system faults. A meter capable of bi-directional metering shall be installed at the entrance to the site. The member shall be charged the cost of the meter. The meter shall be read monthly. All energy to the site shall be charged at the standard rate. Energy from the site shall be credited at the generation rate. This credit shall be applied to the members account to offset future consumption. The standard facility charge shall be applied to the site.
- C. The following are costs associated with the administration of self-generation:
 - a. For parallel operation, an application fee of \$100 shall be levied with the application for Frontier Power to confirm the proposed equipment and supply system are compatible.
 - b. A metering and site inspection charge shall be paid by the applicant prior to connection, currently \$200 for single phase and \$400 for three phase.
 - c. Independent systems require no input from the utility.
 - d. Changeover switch and/or protection will be installed by member.

D. Installer will conduct and provide site commissioning to the Coop for all systems that may interconnect with the utility.

E. Procedure

- a. The applicant will fill in and submit to Frontier the Application for Distributed Resource with necessary stamped drawings and the application fee. The application must contain the proposed equipment, single line diagram, estimated annual generation to the utility and contact e-mail.
- b. Frontier will evaluate the application to ensure it will be able to operate safely and will not adversely affect the distribution system. Proposed equipment must meet the required standards and generation to the system will determine the generation category. Frontier will approve / disapprove the facility and inform the Member / Contractor thereof.
- c. The facility may then be constructed by the Member's contractor.
- d. The signed connection agreements (Agreement for Interconnection of a NM QF, Agreement for Electric Service for NM QF), commissioning reports and test certificates along with the metering fee, need to be submitted.
- e. Frontier will change the metering and perform site inspection.
- f. Frontier will commence billing under the specified tariff.