

## **Co-Generation / Net Metering**

*Thank You for your interest in Co-Generation and Net Metering at Fannin County Electric Cooperative.*

*A Quick Overview of Technical Requirements of Interconnection and Operation of Distributed Generation Resources*

- The DG installation must meet all applicable national, state, and local construction and safety codes as well as all requirements of Fannin County Electric Cooperative and Rayburn Electric Cooperative.
- The DG installation must be equipped with protective hardware and software designed to prevent the generator from being connected to a de-energized circuit owned by FCEC. The DG installation shall not be energized when the FCEC system has been de-energized for any reason.
- The DG installation must be equipped with protective hardware and software designed to prevent the connection or parallel operation of the DG installation with the FCEC system unless the FCEC system service voltage and frequency is of nominal value.
- The DG installation shall not degrade the voltage provided to other FCEC members to service voltages outside the limits of ANSI C84.1, Range A.

- The FCEC distribution system is a four wire multi-grounded neutral system. All grounding must ensure that fault conditions are not worsened by the interconnection of the DG installation.

For example in the FCEC system, the voltages of the unfaulted phases during a single line to ground fault with no DG installation will be the limit of the voltages of the same unfaulted phases during a single line to ground fault with the DG installation.

- The DG installation shall follow the FCEC system frequency with the range of 59.3 Hz to 60.5 Hz (on a 60 Hz nominal value). The DG installation shall disconnect from the FCEC system within 0.16 seconds if the frequency goes outside of the range specified.
- The DG installation shall synchronize with the FCEC system without causing a voltage fluctuation at the PCC greater than +/- 5% of the operating voltage. Synchronism shall be automatically performed by hardware and software.
- The DG installation shall be equipped with a disconnect by means of which the DG installation and all protective devices and control apparatus are able to be disconnected entirely from the circuits supplied by the DG installation.
- The DG installation must be compliant.

There is no application fee or inspection fee, at this time, for 50 kW units and smaller.

A net meter will be required at the customer's expense, costing around \$500 as of June 1, 2015.

The meters can only turn back to ZERO. Excess kilowatts are not "booked" or credited to an account, however the co-op member will benefit by receiving the prevailing retail rate for kilowatt hours generated back to ZERO reading on the meter.