



Title: Interconnection of Distributed Generation

Policy No: 6-3

Original Issue:
June 17, 2004

Last Revised:
June 17, 2021

Last Reviewed:
June 17, 2021

Pages: 3

1. Objective:

To establish the rules and conditions under which member and non-member owned generation may be connected to the cooperative's distribution system. Policy 6-3 will work in conjunction with Policy 6-5 if member-owned renewable generation is behind the member's meter.

2. Provisions:

Electricity is supplied to Highline Electric Association (Highline) through an all-requirements contract with Tri-State Generation and Transmission Association, Inc. (Tri-State) which requires that all energy sold to members of Highline be supplied by Tri-State or be generated by Highline. However, members may self generate by separating themselves from the cooperative's distribution system or may generate in parallel with the Highline distribution system under the following conditions:

Stand Alone Generation: Highline's members shall be permitted to generate electricity by separating their electric system from the cooperative. This type of generation is normally done during a power outage on the Highline's electrical system and is handled under terms of Board Policy 6-1.

Parallel Generation: A member of the cooperative shall only be permitted to generate electricity by connecting member-owned generation in parallel with the cooperative's electrical system under the following conditions:

- A. If the member-owned Distributed Generation is a Qualifying Facility (QF) under PURPA, Highline will follow the guidance of Tri-State Policy 101. Highline and/or Tri-State will make provisions for the output of the generator per Highline or Tri-State policy. Policy 6-5 shall apply if the Distributed Generation is net-metered.
- B. The member must submit to Highline plans of their proposed installation and must obtain approval for the installation. This approval process will include a review by Highline of the effect of the proposed generation on the cooperative's distribution system, including its protective scheme. Highline reserves the right to refuse to connect parallel generation to its distribution system based on this review. The member requesting inter-connection shall pay the cost of this review. No installation will be permitted that reduces reliability to other members or causes voltage conditions on the system to be outside of the limits of ANSI C84.1 Range A. No installation will be permitted that is expected to produce objectionable harmonics on the system. Any mitigation required to resolve harmonic problems created by a member-owned generator would be completed and paid for by the member.

- C. The member will be responsible for the cost of any alterations to Highline's distribution system to interconnect the proposed generation to Highline's distribution system, including upgrade of conductor size, installation of transformers to accommodate the output of the unit, and upgrading or replacing voltage regulation and protective equipment.
- D. The member will pay for the cost of the metering, specified and installed by Highline or Tri-State, necessary to measure the output of the unit. At a minimum, the metering data shall be time differentiated and shall be capable of measuring energy flow in both directions. Policy 6-5 shall apply if the Distributed Generation is net-metered.
- E. For any member choosing to self-generate, the member will be served under provisions of a rate schedule that recovers Highline's cost of service. Policy 6-5 shall apply if the Distributed Generation is net-metered.
- F. The installation shall meet the requirements of the Institute of Electrical and Electronics Engineers (IEEE) 1547 "Standard for Interconnecting Distributed Resources with Electric Power Systems," requirements of the National Electrical Code (ANSI/NFPA 70) latest edition, requirements of the National Electrical Safety Code (IEEE C2) latest edition, requirements of the State, requirements of the local municipality and the requirements of Highline's engineering department. The member shall certify that these requirements have been met and shall provide an electrical inspection by an inspector from Highline's list of inspection agencies.
- G. The member making the installation shall indemnify and hold harmless Highline from the operation, non-operation or interconnection of member-owned generation equipment. In addition, the member shall carry liability insurance in an amount acceptable to Highline to cover potential claims and will provide Highline with a certificate of insurance for the policy.
- H. The member shall agree to periodic testing of the protective equipment installed with the generator as required by the cooperative's engineering department with the cost of testing borne by the member.
- I. If the cooperative is to supply standby service or synchronization service, the member shall pay to Highline monthly fees to cover the costs to reserve capacity or provide an AC signal.
- J. If nonmember-owned Distributed Generation is requested as a Qualifying Facility (QF) under PURPA, Highline will follow the guidance of Tri-State Policy 101. Highline and/or Tri-State will make provisions for the output of the generator per Highline or Tri-State policy. The basic tenants of this policy will also pertain to nonmember-owned Distributed Generation.

3. Responsibility: The General Manager is responsible for the administration and enforcement of this policy.

Approved by the Board of Directors



President



Secretary

Date Approved:

June 17th, 2021