

Rensselaer Municipal Electric Utility Application
For Interconnection of Renewable Generation Facilities

Customer Name: _____

Service Address: _____

Insurance Carrier: _____ Phone No.: _____

Insurance Requirements:

- **City of Rensselaer named as insured**
- **Residential liability minimum \$200,000**
- **Commercial liability minimum \$1,000,000**
- **Copy of Policy** ☐

Application Fee \$100: ☐ Paid Date: _____ Utility Clerk Initials: _____

Project Contact Person: _____

Phone No.: _____ Email Address: _____

Provide names and contact information for other contractors and engineering firms involved in the design and installation of the generation facilities:

Total Generating Capacity of Customer's Generation Facilities: _____

Type of Generator: ☐ Inverter-Based ☐ Synchronous ☐ Induction

Power Source: ☐ Solar ☐ Wind ☐ Biomass ☐ Geothermal ☐ Hydroelectric
☐ Other Renewable (Describe)

Has the equipment package been certified by a nationally recognized testing and certification laboratory as complying with IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems (as amended and supplemented), and Underwriters Laboratories (UL) Standard 1741 on Inverters, Converters, and Controllers for Use in Independent Power Systems (January 2001)? ☐ Yes ☐ No

Indicate **ALL** possible operating modes for this generator facility:

- ☐ Emergency / Standby – Operated when Municipal Utility service is not available. Paralleling is for short durations.
- ☐ Peak Shaving – Operated during peak demand periods. Paralleling is for extended times.
- ☐ Base Load Power – Operated continuously at a pre-determined output. Paralleling is continuous.
- ☐ Cogeneration – Operated primarily to produce thermal energy. Paralleling is extended or continuous.
- ☐ Renewable non-dispatched – Operated in response to an available renewable resource such as solar or wind. Paralleling is for extended times.
- ☐ Other – Describe: _____

Will the Customer's Generation Facilities export power? ☐ Yes ☐ No
If yes, how much? _____kW

For this application to be considered complete, adequate documentation and information must be submitted that will allow Utility to determine the impact of the Generation Facilities on Utility's electric system and to confirm compliance by Customer with the provisions of Utility's tariff. Typically this should include the following:

1. Single-line diagram of the Customer's system showing all electrical equipment from the generator to the point of interconnection with Utility's distribution system, including generators, transformers, switchgear, switches, breakers, fuses, voltage transformers, and current transformers.
2. Control drawings for relays and breakers.
3. Site Plans showing the physical location of major equipment.
4. Relevant ratings of equipment. Transformer information should include capacity ratings, voltage ratings, winding arrangements, and impedance.
5. If protective relays are used, settings applicable to the interconnection protection. If programmable relays are used, a description of how the relay is programmed to operate as applicable to interconnection protection.
6. For certified equipment, documentation confirming that a nationally recognized testing and certification laboratory has listed the equipment.
7. A description of how the generator system will be operated including all modes of operation.
8. For inverters, the manufacturer name, model number, and AC power rating, Operating manual or link to manufacture's web site containing such manual.
9. For synchronous generators, manufacturer and model number, nameplate ratings, and impedance data (X_d , X'_d , & X''_d).
10. For induction generators, manufacturer and model number, nameplate ratings, and locked rotor current.

This application is subject to further consideration and study by Utility and the possible need for additional documentation and information from Customer.