

Application for Interconnection of Distributed Generation

Tier 2 Generation Proposal (Greater than 10 kW and less than or equal to 100 kW)
and

Tier 3 Generation Proposal (Greater than 100 kW and up to 200 kW)

This application should be completed and returned to MLGW in order to begin processing the request. MLGW will make an initial review and notify you of any need for additional study or information within 10 business days.

PART 1

MLGW Customer Information

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Fax Number: _____

Email Address: _____ MLGW Account #: _____

Contact: _____

Project Design/Engineering (as applicable)

Company: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Fax Number: _____

Contact: _____ Email: _____

PE License _____ State _____

Electrical Contractor (as applicable)

Company: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Fax Number: _____

Contact: _____ Email: _____

Contractor's License _____ City/County/State _____

Type of Generation Proposed

Renewable Energy Source: Solar Wind Hydro Other (describe) _____

Estimated Installation Start Date: _____ Estimated Completion Date: _____

Estimated Load and Generation Rating Information

Facility Type: Residential: _____ Commercial: _____ Industrial: _____

System Rating: _____ (kW) Annual Estimated Generation: _____ (kWh)

Total Site Load: _____ (highest kW demand last 12 months)

PART 2

(Complete all applicable items. Copy this page as required for additional generation units)

PHOTOVOLTAIC GENERATOR DATA

Manufacturer of panels: _____
Model: _____ Number to be installed: _____
Voltage: _____ kW (AC): _____ kW (DC): _____
From AC disconnect: _____ # of wires _____ wire size
Phone number for connection at generation meter (non-residential only): _____

SYNCHRONOUS GENERATOR DATA

Identification per Single Line Drawing: _____
Total number of units with listed specifications on site: _____
Manufacturer: _____
Type: _____ Date of Manufacture: _____
Serial Number (each): _____
Phases: Single: _____ Three: _____ R.P.M.: _____ Frequency (Hz): _____
Rated Output (for each unit): _____ KiloWatt _____ Kilovolt-Ampere
Rated Power Factor (%): _____ Rated Voltage (Volts): _____ Rated Amperes: _____
Field Volts: _____ Field Amps: _____ Motoring power (kW): _____
Synchronous Reactance (Xd): _____ % on _____ KVA base
Transient Reactance (X'd): _____ % on _____ KVA base
Negative Sequence Reactance (Xs): _____ % on _____ KVA base
Sequence Reactance (Xo): _____ % on _____ KVA base
Neutral Grounding Resistor Size (if applicable): _____
I22t or K (heating time constant): _____
Additional information: _____

INDUCTION GENERATOR DATA

Rotor Resistance (Rr): _____ ohms Stator Resistance (Rs): _____ ohms
Rotor Reactance (Xr): _____ ohms Stator Reactance (Xs): _____ ohms
Magnetizing Reactance (Xm): _____ ohms Short Circuit Reactance (Xd''): _____ ohms
Design letter: _____ Frame Size: _____
Exciting Current: _____ Temp Rise (deg C°): _____
Reactive Power Required: _____ Vars (no load), _____ Vars (full load)
Additional information: _____

PRIME MOVER

Identification per Single Line Diagram _____ Unit Number: _____
Type: _____
Manufacturer: _____
Serial Number: _____ Date of Manufacture: _____
H.P. Rated: _____ H.P. Max.: _____ Inertia Constant: _____ lb.-ft.²
Energy Source (solar, hydro, wind, etc.) _____

INVERTER DATA

Manufacturer: _____ Model: _____
Rated Power Factor (%): _____ Rated Voltage (Volts): _____ Rated Amperes: _____
Inverter Type (ferroresonant, step, pulse-width modulation, etc): _____
Single or Three Phase _____ Type commutation: forced _____ line _____

Harmonic Distortion: Maximum Single Harmonic (%) _____
Maximum Total Harmonic (%) _____

POWER CIRCUIT BREAKER

Manufacturer: _____ Model: _____
Rated Voltage (kilovolts): _____ Rated ampacity (Amperes) _____
Interrupting rating (Amperes): _____ BIL Rating: _____
Interrupting medium / insulating medium (ex. Vacuum, gas, oil) _____ / _____
Control Voltage (Closing): _____ (Volts) AC DC
Control Voltage (Tripping): _____ (Volts) AC DC Battery Charged Capacitor
Close energy: Spring Motor Hydraulic Pneumatic Other: _____
Trip energy: Spring Motor Hydraulic Pneumatic Other: _____
Bushing Current Transformers: _____ (Max. ratio) Relay Accuracy Class: _____
Multi ratio? No Yes: (Available taps) _____
Description of Control System _____

Additional Information – Single Line Diagram

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, including all applicable elementary diagrams, major equipment (PV panels, wind turbines, generators, transformers, inverters, AC disconnect switch, optional DC disconnect switch, circuit breakers, protective relays, batteries and any other components that represent the balance of the system). Include manufacturer’s specifications, test reports and any other applicable drawings or documents necessary for the proper design of the interconnection. Also describe the address or grid coordinates of the facility.

Permission to Interconnect

Customer must not operate their generating facility in parallel with Distributor’s system until they receive written authorization for parallel operation from Distributor. Unauthorized parallel operation could result in injury to persons and /or damage to equipment and/or property for which the customer may be liable.

Customer Signature

I hereby certify that, to the best of my knowledge, the information provided herein is complete and accurate. I understand that the generation system cannot be operated in parallel with MLGW’s system until I have received written approval from MLGW (in the form of the executed Distributor’s Acceptance of Qualifying System, Attachment B), after all inspections and reviews are completed. I understand that I may incur MLGW metering costs beyond the amount that TVA reimburses, as well as other costs for other interconnection components, and that I will be notified of any such costs as the project detail is confirmed.

Signed: _____

Title: _____ Date: _____

Submit this completed form along with the following attachments:

- One-line diagram of proposed generation (as described in the Additional Information section above)
- Manufacturer’s specification sheets for solar panels, wind turbines, inverters, AC disconnect switch and optional DC disconnect switch to MLGW:

via email: Becky Williamson, bwilliamson@mlgw.org
via mail: Becky Williamson, MLGW, P O Box 430, Memphis, TN 38101
via delivery: Becky Williamson, MLGW, 220 South Main Street, Memphis, TN 38103