

# **Application for Interconnection of Distributed Generation**

TIER 2 (GREATER THAN 10 KW DC)

The document is considered complete when it provides all applicable and correct information required below. Inaccurate information will delay approval and could result in higher interconnection costs. The required Application for Interconnection fee must be paid by check, payable to MLGW, before the application can be reviewed.

## PART 1

## INTERCONNECTION OPTION

TVA Green Power Providers/**GPP** (0.5 kW-50 kW, dual metered, selling 100% of output to TVA)

TVA Distributed Solar Solutions/**DSS** (51 kW-5 MW, dual metered, selling 100% of output to TVA)

TVA Dispersed Power Production/DPP (dual metered, selling 100% of output to TVA)

Self-Generation/**SG** (dual metered; using output onsite and providing any excess without compensation)

Self-Generation with TVA Dispersed Power Production/**SGDPP** (dual metered; using output onsite and selling any excess output to TVA)

#### PARTICIPANT

Name (if GPP, must match name on MLGW account):			
Service Address of System:	City:	, TN	Zip:
Mailing Address (if different from service address):			
Telephone (Day):	Fax:		
Email Address:			
MLGW Account Number (with electric service, required unless	DPP):		
Owner of Building (if different than customer/participant):			
PROJECT CONTACT (IF DIFFERENT FROM PARTICIPANT)			
Name:			
Address:	City:	State:	Zip:
Telephone (Day):	Fax:		
Email Address:			
OWNER OF SYSTEM (IF DIFFERENT FROM PARTICIPANT)			
Name:			
Address:	City:	State:	_ Zip:
Telephone (Day):	Fax:		
Email Address:			
PROJECT DESIGN/ENGINEERING CONTRACTOR Company:			
Mailing Address:	City:	State:	Zip:
Representative:			
Telephone:	Fax:		
Email Address:			
PE License:	State:		
DISTRIBUTED GENERATION INSTALLATION CONTRACTO Company:	R		
Mailing Address:	City:	State: _	Zip:
Representative:			
Telephone:	Fax:		

Email Address:		
Contractor's License #:	City/County/Sta	ite:
NABCEP* Entry Level Candidate #:	or Level 1 Certi	ficate #:
* required only for GPP solar project	cts	
ELECTRICAL CONTRACTOR		
Company:		
Mailing Address:	City:	State:Zip:
Representative:	Telephone:	
Email Address:	Fax:	
Contractor's License #:	City/County/Sta	te:
<b>PROPOSED GENERATION SYSTEM</b> Renewable Energy Source: Solar, Wind, I	Hydro, 🗌 Other (describe)	
Estimated Installation Date:	Estimated In-Service Date:	
ESTIMATED LOAD AND GENERATION RATING	INFORMATION	
Customer Type:  Residential  Commercial,	Industrial or Organization	
Single Meter Site Load:(hig	ghest kW demand last 12 months)	
Annual Electricity Consumption at Single Billing Me	ter:kWh *	
Proposed System Nameplate Rating:	_(kW DC) *	
Annual Estimated Generation:	(kWh) *	
* for GPP, system cannot generate more th	nan 100% of annual consumption of	single billing meter
Annual Estimated Excess Generation to Flow to Gr	id (kWh) for SGD	PP and SG projects only
Electric Service Type: Overhead Undergro	bund	
Connection Voltage:		
PART 2		
(Complete all applicable items. Copy this section as	s required for additional generators)	
PHOTOVOLTAIC GENERATOR DATA		
Manufacturer of panels:		
Model:	Number to be installed:	
Voltage: kW (AC):	kW (DC):	
From AC disconnect Number of Wires:	and Wire Size	
Phone number for jack at generation meter*		
* phone line required if system capacity is	50 kW or greater and cellular mode	m is not applicable
		in to not applicable
SYNCHRONOUS GENERATOR DATA		
Identification per Single Line Drawing:		
Total Number of Units With Listed Specifications or	n Site:	
Manufacturer:		
Туре:	Date of Manufacture:	
Serial Number (list each):		
Phases: Single Three R.P.M.:	Frequency (H	z):
Rated Output (for each unit):	Kilowatt and	Kilovolt-Ampere
Rated Power Factor (%):	Rated Voltage (Volts):	Rated Amperes:
Field Volts: Field Amps:	Motoring power (kW)	
Synchronous Reactance (Xd)	% on	KVA hase
Transient Reactance (Xd):	% on	KVA base

Negative Sequence Reactance (Xs):	% on	KVA base
Sequence Reactance (Xo):	% on	KVA base
Neutral Grounding Resistor Size (if applicat	ble):	
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):	hms Short Circuit Reactance (Xd"):	ohms
Design Letter:	Frame Size:	
Exciting Current:	Temp Rise (degrees Celsius):	
Reactive Power Required:	Vars (no load) and	Vars (full load)
Additional information:		
PRIME MOVER (COMPLETE ALL APPLICABLE	ITEMS)	
Identification per Single Line Diagram:	Unit Numbe	r:
Туре:		
	Data of Manufacture	
Serial Number:	Date of Manufacture:	h # 0
Epergy Source: Solar Wind Hydro	Inertia Constant	IDII.2
INVERTER DATA (IF APPLICABLE)		
Manufacturer:	Model:	
Rated Power Factor (%): I	Rated Voltage (Volts): Ra	ited Amperes:
Inverter Type (ferroresonant, step, pulse-wi	dth modulation, etc):	<u>.</u>
Phases: 🗌 Single 🗌 Three		
Type Commutation: Forced Line		
Harmonic Distortion: Maximum Single Harm	nonic(%) Maximum Total H	Harmonic(%)
POWER CIRCUIT BREAKER (IF APPLICABL	.E)	
Manufacturer:	Model:	
Rated Voltage:kilovo	Its Rated Ampacity:	(Ampheres)
Interrupting Rating (Amperes):	BIL Rating:	、 、 ,
Interrupting Medium/Insulating Medium (ex.	vacuum, gas, oil ):	/
Control Voltage (Closing): (Vol	lts) AC DC	
Control Voltage (Tripping): (Vol	lts) AC DC Battery Charged C	apacitor
Close Energy: Spring Motor H	ydraulic 🔲 Pneumatic 🔲 Other:	
Trip Energy: Spring Motor Hyd	draulic 🔲 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

Provide manufacturer's specification sheets for the proposed system components to show testing and listing by a Nationally Recognized Laboratory for compliance with the interconnection codes and standards outlined in the MLGW Distributed Generation Interconnection Procedures. In addition, attach a detailed one-line diagram of the

proposed facility, all applicable elementary diagrams and major equipment including: number and location of PV panels, wind turbines, generators, transformers, inverters, external lockable AC disconnect switch, circuit breakers, protective relays, batteries and any other components that represent the balance of the system, plus location of existing MLGW electric billing meter (unless DPP or Self-Generation where site does not have electric service) and proposed point of interconnection. Include manufacturer's specifications, test reports and any other applicable drawings or documents necessary for the proper design of the interconnection.

#### PERMISSION TO INTERCONNECT

Installer must leave AC disconnect in the "off" position to prevent unauthorized generation prior to MLGW's system acceptance test. Customer must not operate their generating facility until they receive written authorization from <u>MLGW</u> (via an executed Distributed Generation System Acceptance Form or, if Green Power Providers, the electronic System Acceptance Form) after all Code inspections, MLGW meter installation and MLGW system acceptance test have been completed. Unauthorized parallel operation could result in injury to persons and/or damage to equipment and/or property for which the customer may be liable.

### INTERCONNECTION CUSTOMER SIGNATURE

I hereby certify that, to the best of my knowledge, the information provided in this application is true. I understand that the generation system cannot be operated in parallel with MLGW's system until I have received written approval from MLGW. I understand this project cannot begin technical review until I have paid the application fee. I understand that I will incur MLGW interconnection costs, which will be calculated and quoted to me based on this application and which must be paid before MLGW interconnection work can begin. I understand that MLGW may determine that this project requires an engineering study, for which MLGW will charge a fee. I understand that submitting this document does not obligate me to proceed with the project.

Signed:		
0		

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

If Business or Organization, Representative's Title:

### A complete submittal package includes the following:

- 1. Application for Interconnection of Distributed Generation, signed
- 2. Technical one-line diagrams
- 3. Manufacturer's specification sheets
- 4. **Payment of Application fee** (check only, payable to MLGW, and mailed or delivered to the address shown below. Please write "Application for Interconnection" and project address, if different from address on check, in the note field.)
  - a. Residential applicant: \$250 plus \$5 per kW proposed (partial kW will be rounded up or down)
  - b. Non-residential applicant: \$500 plus \$5 per kW proposed (partial kW will be rounded up or down)

### Materials should be submitted as separate documents or electronic files (PDF) to MLGW

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

FOR OFFICE USE ONLY: Application for Interconnection Paymen I	FOR OFFICE USE ONLY:	Application for	Interconnection Payr	nenT
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Date Received: \_\_\_\_\_

Check #:

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Amount:	\$	

Version: January 2017