

Application for Interconnecting a Distributed Energy Resource (DER) with the OG&E Distribution System

Instructions

An Interconnection Customer who desires to connect an UL certified Inverter Based System of 10kW or less should apply using the OG&E form: Application for Interconnecting a UL-1741 Certified Inverter-Based Distributed Energy Resource (DER) No Larger than 10kW.

For interconnecting all other Distributed Energy Resources (Generators, Inverters, Turbines, PV, Fuel Cells, etc.) the Customer shall submit this completed application to renewableenergy@oge.com or via mail to:

Oklahoma Gas and Electric Company Attn: Customer Program Support P.O. Box 321 M/C 205 Oklahoma City, OK 73101

Interconnection Customer Information

Please provide as much information as possible. If the information is not applicable or unknown, use "N/A" to so indicate.

Name of the Interconnection Customer (or, if an individual, individual's name)

Name:			
Address:			
	State: Zip:		
Telephone (Day):	(Evening):		
Fax:	E-Mail Address:		
	(if different from the Customer – other	·	
	State:		
Telephone (Day):	(Evening):		
Fax:	F-Mail Address		

Application is for	_		ource (DER) Facility Generating Facility		
If capacity addition	on to existing facilit	ry, please describe	y:		
Check size of DEF	R facility being appl	ied for:	up to 300kW 301kW -to - 10 greater than 10		
Check the intend	ed use of the facilit	ty:			
_ ·	oduction to OG&E uction of energy in	excess of customo	er's own load		
DER Facility Gene	eral Information				
Energy Source:	Solar Fuel Oil	☐ Wind ☐ Battery	Hydro Other (descr	Diesel	Natural Gas
Prime Mover:	Fuel Cell Hydro Turbine	Engine Wind Turbine	Gas Turbine Other (descr	Steam Turbine	Micro Turbino
Type of Generato	or: Synchronou	ıs 🗌 Induction	☐ Inverter Base	ed	
(Note: If more the	Rating:k an one generator, i al device ratings on	nverter, etc is to b			te ratings here,
Interconnection (Customer or Custor	mer-Site Load:	k	xW (if none, so stat	e)
Typical Reactive I	Load (if known):		_		
Maximum Export	Capability Reques	ted:	kW		
Equipment Manu	ufacturer, Model Na	ame, Number, Ver	sion, etc.:		
-					
Individual Namer	olate Output Power	Rating in kW: (S	ummer)	(Winter)	
Individual Namer	olate Output Power	Rating in kVA: (S	ummer)	(Winter)	
Individual Genera	ator Rated Power F	actor: Leading:	Lag	ging:	

Preliminary Information

DER Facility Characteristic Data for Inverter Based Machines

Equipment Location (if different fro	m above):		
Inverter Manufacturer:	Nanufacturer:Model:		
		Volts) Single Phase 3 phase	
Estimated Installation Date:	Estimated In-S	Service Date:	
List components of the facility equip	oment package that are UL	1741 or IEEE 1547 pre-certified:	
Equipment Type 1 2 3 4 5		fying Entity (UL, CSA, etc.)	
Max design fault contribution curre	nt (if known):		
Harmonics Characteristics:			
Start-up requirements (if applicable):		
Additional information for wind gen	<u>ierators</u>		
Total Number of Generators in wind	I farm to be interconnected	d: Elevation:	
List of adjustable set points for the p	orotective equipment or so	oftware:	

Provide this additional information Induction Generators only: Reactive Power Required In Vars (No Load): Reactive Power Required In Vars (Full Load): Power Capacitors will be installed for Power Factor Correction. Total capacitor kVAR: Power Capacitors will be installed for "Stand Alone" capacitor kVAR:

Excitation and Governor System Data for Synchronous Generators Only

cannot be processed without this information.

This information may be requested by OG&E for very large installations. If requested, provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

Important: The ability of an induction generator to "Stand Alone" or operate independently when isolated from the OG&E system will dictate the amount of protective equipment required by OG&E. This application

Interconnection Facilities Information

For large facilities that will connect directly to OG&E's primary distribution system (12,470Volt, 24,900Volt or 34,500Volt feeder lines), a customer-owned power transformer and customer-owned protective equipment (fuses and/or protective relays) are typically provided. Provide all information that is applicable. This information will not normally be required for customer's applying to connect to OG&E secondary service conductors (120/240 Volt, 120/208 Volt, etc.).

Will a transformer be used bet	ween the generator and th	e point of interco	nnection?
Transformer Data (If Yes, for In	terconnection Customer-C	wned Transforme	<u>er):</u>
Is the transformer: Single Transformer Impedance:	<u> </u>		А
If Three Phase, provide namep Transformer Primary: Transformer Secondary:	Volts	Check Connec	tion Type: Wye Grounded Wye Grounded Wye
Transformer Fuse Data (If Appl	icable, for Interconnection	Customer-Owned	d Fuse):
(Attach copy of fuse manufactu	urer's Minimum Melt and T	otal Clearing Time	e-Current Curves)
Manufacturer:	Type:	Size:	Speed:
Interconnecting Circuit Breaker	(if applicable):		
Manufacturer: I Load Rating (Amps): II Interconnection Protective Rela	nterrupting Rating (Amps):	Trip Sp	eed (Cycles):
List of Functions and Adjustable	e Set points for the protect	ive equipment or	software:
Set point Function (overcurren	t, underfrequency etc.)	Minimum	Maximum
1			
2			
3			
4			
5			
6			

If Protective System is made up of Discrete Components:

(Enclose Copy of any Proposed Time-Overcurrent Coordination Curves) Manufacturer: _____ Type: ____ Style/Catalog No.: _____ Proposed Setting: _____ Manufacturer: _____ Type: ____ Style/Catalog No.: _____ Proposed Setting: _____ Manufacturer: _____ Type: ____ Style/Catalog No.: _____ Proposed Setting: _____ Manufacturer: _____ Type: ____ Style/Catalog No.: _____ Proposed Setting: _____ Manufacturer: Type: Style/Catalog No.: Proposed Setting: <u>Current Transformer Data (If Applicable):</u> (Enclose Copy of Manufacturer's Excitation and Ratio Correction Curves) Type: ______ Accuracy Class: _____ Proposed Ratio Connection: _____ Type: _____ Accuracy Class: ____ Proposed Ratio Connection: _____ Potential Transformer Data (If Applicable): Manufacturer: Type: ______ Accuracy Class: _____ Proposed Ratio Connection: _____ Manufacturer: Type: ______ Accuracy Class: _____ Proposed Ratio Connection: _____ **General Information** The following general information should be provided with all applications (if available) and will be required for planned facilities with above 300kW total nameplate rating. Facilities of this size are normally designed by professional engineers who can provide the required documentation. This information will allow OG&E technical engineers evaluate your application and will speed up the approval process. Enclose copy of any available site electrical one-line diagram showing the configuration of all Generating Facility equipment, current and potential circuits, and protection and control schemes. Enclose copy of any site documentation that indicates the precise physical location of the proposed Generating Facility (e.g., USGS topographic map or other diagram or documentation). Proposed location of protective interface equipment on property (include address if different from the Interconnection Customer's address): ______ Enclose copy of any site documentation that describes and details the operation of the protection and control schemes.

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay

potential circuits, and alarm/monitoring circuits (if applicable).

Acknowledgment of Compliance with Applicable State Rulemaking

Section 16 Arkansas	a Corporation Commission Standard Terms of Purchases from Pu 65:40-5-1 or Net Metering Rules per the Arkansas Renewable Energy Devel d 23-18-603)	
	tial each of the following three requirements. By initialing each requ t as true. Failure to initial all three requirements grants OG&E the rig	· · · · · · · · · · · · · · · · · · ·
de th fe ju	Il apparatus and electrical wiring connected or to be connected to the elivery is at my expense, and is installed and maintained in accordance 2014 or later National Electric Code to the extent consistent with lederal regulations, and with all requirements prescribed by government in the event of a conflict between the National Electric Code to the extent consistent with lederal regulations, and with all requirements prescribed by governments in the event of a conflict between the National Electric Code, I understand that the latter shall govern.	ce with the requirements of aw, including state and ental authority having
sy te	he power inverter based apparatus utilized in the system to be connected by stem point of delivery is UL 1741 listed or certified, or is certified by esting laboratory as being compliant with Underwriters Laboratory (Landards before the system will be connected to the distribution syst	a nationally recognized JL) 1741, 2 nd Revision or later
d _e	Il relevant apparatus utilized in the system to be connected to the diselivery is certified by a nationally recognized testing laboratory as collectrical and Electronics Engineers (IEEE) 1547 or later Standard for Innergy Resources with Electric Power Systems.	mpliant with the Institute of
Applicant	: Signature	
that the p	certify that, to the best of my knowledge, the information provided in proposed equipment meets the requirements of the OG&E Distribute section Standards.	• •
from OG8	and that this is an application and no work shall be performed until ap &E. After an application has been approved, any changes in project so nent type, size or rating will require that an updated application be re	cope including but not limited
producer	and that a certificate of completion will be required prior to energizate and a local municipal code inspector. If self-installed or no local govern, the facility shall be inspected by a licensed electrician or licensed p	ernment party has
Interconn	ection Customer: (Print)	
Interconn	ection Customer: (Signature)	Date: