

APPLICATION FOR INTERCONNECTION & OPERATIONS OF MEMBER-OWNED GENERATION

This application should be completed and returned to Bandera Electric Cooperative, Inc. in order to begin processing the request for interconnecting Distributed Generation as required by the Cooperative's Tariffs. See <u>BEC Procedures and Guidelines Manual for Member-Owned Distributed Generation</u> for additional information.

INFORMATION: This application is used by BEC to facilitate the determination of the required equipment configuration for the Member/Cooperative Point of Interconnection. Every effort should be made to supply as much information as possible.

PART 1 - OWNER/APPLICANT INFORMATION Member Name: Mailing Address: City: _____ County: ____ State: ____ Zip Code: _____ Phone Number: _____ Representative: _____ Email Address: _____ Fax Number: _____ Proposed Location of Generator: City: _____ County: ____ PART 2 – PROJECT DATA TYPE OF GENERATOR Photovoltaic: ____ Wind: ___ Microturbine: ___ Diesel Engine: ____ Gas Engine: Combustion Turbine: Other: ESTIMATED LOAD & GENERATOR RATING INFORMATION The following information is necessary to help properly design the Cooperative/Member interconnection. This information is not intended as a commitment or contract for billing purposes. Total Site Load (excluding any DG): _____ (kW)



Proposed Number of Gene	erating Units:	_ Generator Rating	:(kW)	
Proposed Total DG Capac	ity to be Installed: _	(kW)		
Estimated Annual Generat	ion Output:	(1	xWh)	
(DG Facility will connect to the BE	EC System and will potentia	lly export power to the elect	rical grid	
PROPOSED MODE OF L	OG OPERATION			
Isolated:			Paralleling:	
(DG facility will not connect in any way to the BEC system)	Power Expo (DG facility will conne system, but will not exp the electric grid)	port power to	(DG facility will connect to the BEC system and will potentially export power to the electric grid)	
DESCRIPTION OF PROF	POSED INSTALLA	TION AND OPERA	ΓΙΟΝ	
			rith which you plan to operate it and a strack additional sheets if	nd
Complete all applicable i	tems. Copy sheets	as required for add	itional generators.	
SYNCHRONOUS GENER	ATOR DATA (as app	plicable)		
Unit Number:	Total Number of U	nits with Listed Spec	eifications on Site:	
Manufacturer:		Type:		
			Manufacture:	
			Rated Power Factor:%	
			Amperes R.P.M.:	
Field Volts: Fie				
Synchronous Reactance (X				
Transient Reactance (X'd)	:	_ % on	KVA base	



Subtransient Reactance (X'd);% on KVA base								
Negative Sequence Reactance (Xs):	% on	_ KVA base						
Zero Sequence Reactance (Xo):	% on	KVA base						
Neutral Grounding Resistor (if applicable	e):							
I ₂ ² t or K (Heating Time Constant):								
Additional Information:								
INDUCTION GENERATOR DATA (as a								
Rotor Resistance (Rr): ohn	ns Stator Resistance (Rs):	ohms						
Rotor Reactance (Xr): ohn								
Magnetizing Reactance (Xm):ohm	ns Short Circuit Reactance (X'd):	ohms						
Design Letter:	Frame Size:							
Exciting Current: Ampere	es Temp Rise (deg C°):							
Reactive Power Required: Vars (No Load	d) Vars (Full Load)							
Additional Information:								
PRIME MOVER (Complete all applicabl								
Unit Number: Typ	pe:							
Manufacturer:								
Serial Number:								
H.P. Rated: H.P. Max.:								
Energy Source (Hydro, Steam, Wind, etc.	2.)							
INVERTER DATA (if applicable)								
(V 11	Model:							
Manufacturer: Model: Rated Power Factor (%): Rated Voltage (Volts): Rated Amperes: Inverter Type (Ferroresonant, Step, Pulse-Width Modulation, etc): Type Commutation: Forced Line Harmonic Distortion: Maximum Single Harmonic (%)								
							armonic (%)	
							\ /	



GENERATOR FACILITY TR	RANSFORMER (Between	n generator and utility system if applical
Generator Unit Number:		
Manufacturer:	Size (kVA): _	
		nufacture:
		Neutral solidly grounded?
Low Voltage:kV Conne	ection:deltawye	Neutral solidly grounded?
Transformer Impedance(Z):	% on	KVA base.
		KVA base.
Transformer Reactance (X):	% on	KVA base.
Neutral Grounding Resistor (if a	pplicable):	
	Model:	Serial Number:
Rated Voltage:kV	Continuous Current Ca	pability: Amperes
Maximum Interrupting Rating: _	Amperes	BIL Rating:
Interrupting Medium / Insulating	g Medium (ex. Vacuum, G	Gas, Oil, etc.)/
Control Voltage (Closing):	(Volts)AC	DC
Close Energy:Spring	Motor Hydraulic	Pneumatic Other:
Control Voltage (Tripping):	(Volts)AC	DCBatteryCharged Capacitor
Trip Energy:Spring	_Motor Hydraulic	Pneumatic Other:
Bushing Current Transformers:	(Max. ratio) R	elay Accuracy Class:YesNo
Multi ratio? Yes No	If Yes, Available Taps: _	

ADDITIONAL INFORMATION AND CONTACTS

In addition to the items listed above, please attach a detailed one-line diagram of the proposed facility, all applicable elementary diagrams, major equipment, (generators, transformers, inverters, circuit breakers, protective relays, etc.) specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the interconnection. Also describe the project's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.

Phone Number:			State:	Zip Code:	
Email Address:					
Mailing Address: City: County: State: Zip Code: Phone Number: Representative: Email Address: Fax Number: PART 3 - SIGN OFF AREA The Member agrees to cooperate with and provide to Bandera Electric Cooperative, Inc. any information required to complete the Member-Owned Generation Interconnection process. For Member agrees they shall operate their equipment within the guidelines set forth by Bandera Cooperative, Inc. Date					
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BANDERA ELECTRIC COOPERATIVE CONTACT FOR	PART 3 - SIGN (The Member agree information requir Member agrees the Cooperative, Inc.	OFF AREA es to cooperate with a red to complete the M ey shall operate their	and provide to Bandera Iember-Owned Generat equipment within the g	Electric Cooperative, Inc. ion Interconnection proceguidelines set forth by Ba	e. any a ess. Fu ndera l
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Cooperative Contact: Manager, Engineering



Address: 3172 State Hwy 16 North P.O. Box 667 Bandera, Texas 78003

Phone: 830-796-3741 Fax: 830-460-3030

Web site: <u>www.banderaelectric.com</u>

For BEC Use Only:

Date Application Initially Received by BEC:	By:
Application Fee Required?NoYes \$	
Application Fee Received? Amount: Date:	By:
Date Application Deemed Complete:	By:
Project Proposed on Substation: Fe	eder: