BOARD POLICY 307: ATTACHMENT A



Application for Distributed Generation Project

I, as Requestor, have fully read, understand, and accept all provisions, terms, and conditions set forth in Shelby Electric Cooperative (Cooperative) Board Policy 307 - Interconnection and Parallel Operation of Distributed Generation.

I desire to interconnect electric generating equipment as a Distributed Generation Project (DGP) to the low-voltage premises wiring at my property. I desire to undertake Parallel Operation of this generating equipment with the electric system of the Cooperative as defined in Board Policy 307.

I desire to receive compensation/credit for any the Cooperative's provisions for net m	,
· · · · · · · · · · · · · · · · · · ·	fying Facilities as defined in Board Policy 321 or Small
I agree to pay the non-refundable application necessary prior to the Cooperative accepting t	fee of \$to the Cooperative, which is this Application for Distributed Generation.
Cooperative electric system and (ii) the quality Cooperative. The Cooperative has identified to be \$ Should a further deposit be	yze the impact my DGP may have on (i) the operations of y of electric service provided to the members of the the deposit for analysis associated with this Application to required, the Cooperative will notify me. Should deposit credited toward any necessary construction costs returned to me.
be required before construction required by the Estimated costs of construction required by the	em construction required, a deposit for construction will he Cooperative for the interconnection would begin. he Cooperative will be provided after analysis is complete, mated costs as a deposit for such construction.
•	any electric generating equipment on the low-voltage t an "Authorization to Energize" duly executed by an
Signed (Requestor)	Date
Account Number	Map Location Number

Distributed Generation Project General Description and Electrical Characteristics

This application should be completed and returned to the Cooperative Member Services Department in order to begin processing the request.

INFORMATION: This application is used by the Cooperative to determine the required equipment configuration for the Requestor's interconnection. Every effort should be made to supply as much information as possible. The Cooperative reserves the right to request any additional information pertaining to the installation of generation equipment/net metering at any time.

PART 1 (Required to be Completed for All Interconnection Requests)

REQUESTOR/APPLICANT INFORMATION

Requestor Name:				_
Mailing Address:				
City:				Zip:
Email Address:				
Phone Number:				
DISTRIBUTED GENERAT				
Requestor Cooperative Account	: Number:			
Cooperative Map Location Num	ber:			_
Physical Address of Site:				
City:	County:		State:	Zip:
PROJECT DESIGN/ENGIN	IEERING (ARCHI	TECT) (as ap _l	plicable)	
Company:				
Contact Name:	Lio	cense/Registratio	n Number:_	
Mailing Address:				
City:				Zip:
Email Address:				
Phone Number:				

ELECTRICAL CONTRACTOR (as applicable)

Company:			
	Licens	e/Registration Number:	
Mailing Address:			
City:	County:	State:	Zip:
Email Address:			
Phone Number:		ax Number:	
TYPE OF GENERATO)R		
☐Photovoltaic ☐Wind	☐Microturbine ☐Diesel Engine	e □Gas Engine □ComI	oustion Turbine
□Battery □Other:			
CERTIFICATION			
For inverter-based installa If yes, please provide evid	ntions, is the inverter UL 1741 ce ence of certification.	ertified? □Yes □No	
ESTIMATED LOAD A	AND GENERATOR RATIN	G INFORMATION	
_	is necessary to help properly de ormation is not intended as a co	-	
Total Nameplate Rating: _	kW-AC	kW-DC	kVAR
Minimum during producti	on hours: Maximu	ım during production hou	rs:
Annual Est Generation:	(kWh) Net Annua	al Est Energy Consumptior	n:(kWh)
DESCRIPTION OF PI	ROPOSED DGP INSTALLA	ATION AND OPERAT	TION
•	e proposed DGP installation, inc	•	•

ADDITIONAL INFORMATION

to operate the DGP generator.

In addition to the items listed above, please attach a detailed one-line diagram of the proposed DGP and any related 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 DGP's planned operating mode (e.g., combined heat and power, peak shaving, etc.), and its address or grid coordinates.

PART 2 (Required to be Completed for Interconnection Requests Exceeding 10 kW)

(Complete all applicable items. Copy pages as required for additional generators.)

SYNCHRONOUS GENERATOR DATA

Unit Number:	Ma	nufacturer:		
Total number of units with listed sp				
Type:	Dat	e of manufacture	e:	
Serial Number (each):				
Phases: \Box Single \Box Three R.	P.M.:	Fre		
Rated Output (for one unit):		Kilowatts	Kilo	ovolt-Amperes
Rated Power Factor (%):	_Rated Voltage ((Volts):	Rated Amperes:	
Field Volts: Field Amps: Motoring pe	ower (kW):			
Synchronous Reactance (Xd):		% on		KVA base
Transient Reactance (X'd):				
Subtransient Reactance (X"d):		% on		KVA base
Negative Sequence Reactance (X ₂):		% on		KVA base
Zero Sequence Reactance (Xo):		% on		KVA base
Neutral Grounding Resistor (if applied	cable):			
Additional information:				
INDUCTION GENERATOR D	ATA			
Motoring power:	kW	Equivalent M\	/A base:	MVA
Rotor Resistance (Rr):	ohms	Stator Resista	nce (Rs):	ohms
Rotor Reactance (Xr):	ohms		nce (Xs):	
Magnetizing Reactance (Xm):	ohms	Short Circuit R	Reactance (Xd"):_ohms	5
Design letter:				
Exciting Current:		Temp Rise ((deg C°):	
Reactive Power Required:	Var	s (no load),	Vars	(full load)
I ₂ ² t or K (heating time constant):				
Additional information:				
PRIME MOVER (Complete a	ll applicable	items)		
Unit Number:	Ma	nufacturer:		
Туре:	Dat	te of manufactur	·e:	
Serial Number:				
H.P. Rated:	H.P. Max.:	lr	nertia Constant:	lbft. ²
Energy Source (hydro, steam, wind,	etc.):			

GENERATOR TRANSFORMER (between generator and utility system; if supplied by applicant)

Generator unit number:		Date of manu	facturer:		
Manufacturer:		Serial Number	: <u></u>		
Size:kVA					
High Voltage:	_KV, Connection: \Box	delta □wye,	Neutral s	olidly ground	N□ Y□ ?beb
Low Voltage:	_KV, Connection: \Box	delta □wye,	Neutral s	olidly ground	N□ Y□ Sbeb
Tertiary Delta Winding: Y/N					
Transformer Impedance(Z):					
Transformer Resistance(R):		% o	n		KVA base
Transformer Reactance (X):		% o	n		KVA base
Neutral Grounding Resistor (if a	pplicable):				
Transformer Fuse (if applicable)	—Manufacturer:	Тур	e:	Size:	_ Speed:
INVERTER DATA (if app	licable)				
Type commutation: □self □line	<u>,</u>				
Manufacturer:		Model:			
Rated Power Factor (%):	Rated Voltage	(Volts):		Rated Ampe	res:
Inverter Type (ferroresonant, st					
Harmonic Distortion: Maxin	um Singlo Harmoni	~ (0/)			
	num Total Harmonic				
Note: Attach all available calcul					verter output
voltage and current waveforms		3	, ,	J	,
POWER CIRCUIT BREAK	ER (if applicabl	e)			
Manufacturer:		Model:			
Rated Voltage (kilovolts):		Rated ampaci	ty (Amper	es):	
Interrupting rating (Amperes):		BIL Ratii	ng:		
Interrupting medium / insulating	g medium (ex. Vacu	um, gas, oil):			/
Control Voltage (Closing):	(Vc	olts) □AC □D	С	_	
Control Voltage (Tripping):				y Charged	Capacitor
Close energy: □Spring □Motor	 □Hydraulic □Pneum	atic Other:			•
Trip energy: □Spring □Motor □	-				
Bushing Current Transformers:					
Multi ratio?: ☐No ☐Yes: (Avail					

PART 3 (Required to be Completed for All Interconnection Requests)

SIGNATURES AND QUEUE DATE

The Requestor agrees to provide the Cooperative with any additional information required to complete the Interconnection. The Requestor shall operate Requestor's DGP and related equipment within all applicable contractual obligations, policies, and guidelines set forth by the Cooperative.

Requestor	D	Pate	
PART 4			
FOR COOPERATIVE USE ONLY			
Map Location #:			
Size of Service / Type of Meter:			
Special Provisions:			
Requestor Interconnection Application and Con	-		□naid
Application Fee:	id Analysis Depo	osit:	
	id Analysis Depo	osit:	paid
Application Fee:	id Analysis Depo	osit:	
Application Fee:	id Analysis Depo _ Time:	osit:	paid
Application Fee:	id Analysis Depo _ Time:	osit:	paid
Application Fee:	id Analysis Depo _ Time:	osit:	paid
Application Fee:	id Analysis Depo	osit:	paid

Annotated copy with Holding Date included to be provided to the Requestor