# FANNIN COUNTY ELECTRIC COOPERATIVE, INC.

## **Application for Operation of Customer-Owned Generation**

This application should be completed as soon as possible and returned to the Cooperative Customer Service representative in order to begin processing the request. See *Distributed Generation Procedures and Guidelines Manual for Members* for additional information.

INFORMATION: This application is used by the Cooperative to determine the required equipment configuration for the Customer interface. Every effort should be made to supply as much information as possible.

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PART 1 MEMBER/APPLICA	NT INFORMATION			
Member:				
			Zip Code:	
Phone Number:		_ FCEC Account #: _		
Representative:		<u> </u>		
PROJECT DESIG	N/ENGINEERING	(as applicable)		
City:	County:	State:	Zip Code:	
FLECTRICAL CO	NTRACTOR (as ap	onlicable)		
			Zip Code:	
PhoneNumber:		_Representative:		
TYPE OF GENER	ATOR (as applicab	le)		
Photovoltaic	Wind _	Microtu	rbine	
Diesel Engine	Gas E	Engine Turbine	Other	

ESTIMATED LOA	D INFORMA	TION		
The following inform interconnection. This purposes.	ation will be us s information is	sed to help properly des s not intended as a com	ign the Cooperative mitment or contract	customer for billing
Total Site Load	(kW)	Total DG Output	(kW)	
Mode of Operation	n (check all ti	nat apply)		
Isolated	Pa	ralleling	Power Export _	
DESCRIPTION O	F PROPOSI	ED INSTALLATION	AND OPERATION	N
Give a general desc the generator.	cription of the p	proposed installation, in	ncluding when you p	lan to operate

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## PART 2

(Complete all applicable items. Copy the	is page as required for addi	itional generators.)
SYNCHRONOUS GENERATOR DATA	1	
Unit Number: Total number of ເ	units with listed specification	ns on site:
Manufacturer:		
Type: Date	of manufacture:	
Serial Number (each):		
Phases: SingleThree R.P.M.	: Frequenc	cy (Hz):
Rated Output (for one unit): Ki	llowatt Kile	ovolt-Amper
Rated Power Factor (%): Rated \	Voltage (Volts) R	Rated Amperes:
Field Volts: Field Amps:	Motoring p	ower (kW):
Synchronous Reactance (X'd):	% on	KVA base
Transient Reactance (X'd):		
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 applicabl	e):	
I <sub>2</sub> ²t of K (heating time constant):	· · · · · · · · · · · · · · · · · · ·	
Additional Information:		
INDUCTION GENERATOR DATA		
Rotor Resistance (Rr): of		
Rotor Reactance (Xr): oh	ms Stator Reactance (Xs)	: ohms
Magnetizing Reactance (Xm): c	hms Short Circuit Reactand	ce (Xd"): ohms
Design letter:		
Exciting Current:	Temp Rise (deg C°): _	
Reactive Power Required:	Vars (no load), Vars _	(full load)
Additional Information:		

DRIME MOVED (Complete all applicable item	٥)			
PRIME MOVER (Complete all applicable item: Unit Number: Type:	•			
Manufacturer:				
Serial Number: Date of				
H.P. Rates: H.P. Max.: Inerti				
Energy Source (hydro, steam, wind, etc.)				
GENERATOR TRANSFORMER (Complete al	l applicable items)			
TRANSFORMER (between generator and utili				
Generator unit number: Date of materials	anufacturer:			
Manufacturer:				
Serial Number:				
High Voltage: KV, Connection: delta	wye, Neutral solidly grounded	d? ?t		
Low Voltage: KV, Connection: delta	wye, Neutral solidly grounde	ed?		
Transformer Impedance (Z): %	on	KVA base		
Transformer Resistance (R):%	% on	_KVA base		
Transformer Reactance (X): % on KV				
Neutral Grounding Resistor (if applicable:				
INVERTER DATA (if applicable)				
Manufacturer:	Model:			
Rate Power Factor (%): Rated Voltage (V	olts): Rated Amperes:			
Inverter Type (ferroresonant, step, pulse-width	n modulation, etc.):			
Type commutation: forced line				
Harmonic Distortion: Maximum Single Harmo	onic (%)			
Maximum Total Harmon	nic (%)			
Note: Attach all available calculations, test	reports, and oscillographic pri	ints showing		

Note: Attach all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.

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POWER CIRCUIT	BREAKE	R (if app	licable)		
Manufacturer:			N	/lodel:	
Rated Voltage (kilovolts):					
Interrupting rating (Amperes):					
					)/
Control Voltage (CI	losing): _	(Volts)	) AC	DC	
Control Voltage (Tr	ripping): _	(Volts	s) AC	DC Bat	ttery Charged Capacitor
Close energy:	Spring	Motor	Hydraulic	Pneumatio	Other:
Trip energy:	Spring	Motor	Hydraulic	Pneumatio	Other:
					curacy Class:
ADDITIONAL INFO	ORMATIC	ON			
transformers, inverse reports, etc., and a design of the interconstant SIGN OFF AREA  The customer agreements of the customer agreement agreement agreement agreement agreement agreeme	enters, cir any other connection ees to pro terconnec	cuit brea applicab n. vide the ( ction. The	akers, protective we customer s	tive relays, or document with any add	or equipment (generators, etc.), specifications, test is necessary for the proper itional information required this equipment within the
Applicant				<u></u> Da	te
FCEC Account Nur		CONTA	CT FOR AP	—— PLICATION	SUBMISSION AND FOR
MORE INFORMAT					
Cooperative contact Title: Address: Email: Phone:	Ma PC Bor cwl	Box 250 nham, TX	Internal Oper   1530 Silo F ( 75418 t@fcec.coop		
Fax:		3-583-21 3-583-738			

### Fannin County Electric Cooperative, Inc.

#### Distributed Generation Rider

#### Application

Applicable to Distributed Generation Facilities smaller than 700 kW of connected generation connected in parallel operation to the Cooperative's electric system in accordance with the Cooperative's service rules and regulations and the Cooperative's *Distributed Generation Procedures and Guidelines Manual for Members* (available on request).

This rate is not applicable to temporary, shared, or resale service. This rate is applicable to service supplied at one point of delivery.

#### Sales to Member

Sales to a Distributed Generation Customer shall be consistent with the applicable retail rate tariff established by the Cooperative and in use by the Member as if there were no Distributed Generation installation.

### Purchases from a Member – All Customers with DG less than 700 kW

Determination of billing shall be accomplished by interconnection through one meter with two registers capable of measuring in-flow and out-flow at the point of delivery of electric service.

All energy (kWh) supplied by the Cooperative to the Member, during the billing period, shall be billed by the Cooperative in accordance with the rates and charges under the cooperative's applicable rate schedule for the Member.

There will be no netting of energy (kWh). All energy (kWh) generated by the Member's qualifying facility during the billing period, not consumed instantaneously by the Member, and delivered back to the Cooperative, within the billing period, shall be credited to the Member at the Cooperative's Monthly Avoided Cost Rate, provided by the Cooperative's wholesale power supplier. If credits for excess energy are greater than the member's monthly bill, the credit will be carried forward to the following billing period. If a credit balance remains at the end of the calendar year, a refund of the entire credit balance will be provided to the member.

In addition to all other charges, the Cooperative may bill the Member for any additional facilities charges as determined by the Cooperative and appended to the Interconnection Agreement.

Any renewable energy credits (REC's) resulting from the operation of the DG are the property of the DG Member unless sold or otherwise transferred by the Member.

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## **Contracts**

An Interconnection Agreement between the Member and the Cooperative shall be required in all cases.