

March 2, 2010

Mark Futrell  
Public Utility Supervisor  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Dear Mr. Futrell,

The documents accompanying this letter fulfill the 2009 net metering reporting requirements detailed in paragraph 10 of *Rule 25-6.065, F.A.C., Interconnection and Net Metering of Customer-Owned Renewable Generation* for Choctawhatchee Electric Cooperative, Inc. (CHELCO).

Enclosed please find a copy of CHELCO's Standard Interconnection Agreement for customer-owned renewable generation, a 2009 Interconnected Renewable Generation Report, and a list of individual customer owned generation interconnections and related information.

If any further information is required for CHELCO to fulfill its reporting requirements, please let us know.

Respectfully,

Leigh V. Grantham  
Chief Executive Officer

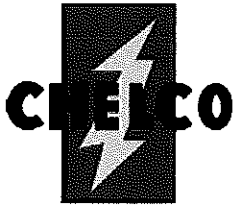
CHOCTAWHATCHEE ELECTRIC  
COOPERATIVE, INC.

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A Touchstone Energy Cooperative



# Application for Operation of & Net Metering for Member-Owned Generation

◆◆This document applies to installations of 50 kW or less.◆◆

This application should be completed and returned to CHELCO's Marketing Department in order to begin processing the request. See Residential Service or General Service Net Metering Riders for additional information about generator requirements and interconnection guidelines.

INFORMATION: *This application is used by the Cooperative to determine the required equipment configuration for the Member interface. Every effort should be made to supply as much information as possible. Generation equipment producing greater than 50 kW will be processed through PowerSouth Energy Cooperative. Contact CHELCO's Marketing Department for details.*

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## PART 1 OWNER/APPLICANT INFORMATION

Owner/Member

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

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### PROJECT DESIGN/ENGINEERING (ARCHITECT) (as applicable)

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

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### ELECTRICAL CONTRACTOR (as applicable)

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_ Fax Number: \_\_\_\_\_

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### TYPE OF GENERATOR (as applicable)

Photovoltaic \_\_\_\_\_ Wind \_\_\_\_\_ Microturbine \_\_\_\_\_

Diesel Engine \_\_\_\_\_ Gas Engine \_\_\_\_\_ Combustion Turbine \_\_\_\_\_

Other \_\_\_\_\_

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**ESTIMATED LOAD, GENERATOR RATING AND MODE OF OPERATION 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 \_\_\_\_\_ (kW)  
 Residential \_\_\_\_\_ General Service \_\_\_\_\_  
 Generator Rating \_\_\_\_\_ (kW) Annual Estimated Generation \_\_\_\_\_ (kWh)

Mode of Operation:  Paralleling

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**DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION**

Give a general description of the proposed installation, including a detailed description of its planned location, the date you plan to operate the generator, the frequency (regularity/how often) with which you plan to operate it and whether you plan to operate it during on or off-peak hours.

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**PART 2**

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

**SYNCHRONOUS GENERATOR DATA**

Unit Number: \_\_\_\_\_ Total number of units with listed specifications on site: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Type: \_\_\_\_\_ Date of manufacture: \_\_\_\_\_  
 Serial Number (each): \_\_\_\_\_  
 Phases: Single Three R.P.M.: \_\_\_\_\_ Frequency (Hz): \_\_\_\_\_  
 Rated Output (for one unit): \_\_\_\_\_ Kilowatt \_\_\_\_\_ Kilovolt-Ampere  
 Rated Power Factor (%): \_\_\_\_\_ Rated Voltage (Volts): \_\_\_\_\_ Rated Amperes: \_\_\_\_\_  
 Field Volts: \_\_\_\_\_ Field Amps: \_\_\_\_\_ Motoring power (kW): \_\_\_\_\_  
 Synchronous Reactance (Xd): \_\_\_\_\_ % on \_\_\_\_\_ KVA base  
 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): \_\_\_\_\_  
 I<sub>2</sub><sup>2</sup>t or K (heating time constant): \_\_\_\_\_  
 Additional information: \_\_\_\_\_

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**INDUCTION GENERATOR DATA**

Rotor Resistance (Rr): \_\_\_\_\_ ohms      Stator Resistance (Rs): \_\_\_\_\_ ohms  
Rotor Reactance (Xr): \_\_\_\_\_ ohms      Stator Reactance (Xs): \_\_\_\_\_ ohms  
Magnetizing Reactance (Xm): \_\_\_\_\_ ohms      Short Circuit Reactance (Xd''): \_\_\_\_\_ ohms  
Design letter: \_\_\_\_\_      Frame Size: \_\_\_\_\_  
Exciting Current: \_\_\_\_\_      Temp Rise (deg C°): \_\_\_\_\_  
Reactive Power Required: \_\_\_\_\_ Vars (no load), \_\_\_\_\_ Vars (full load)  
Additional information: \_\_\_\_\_  
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**PRIME MOVER (Complete all applicable items)**

Unit Number: \_\_\_\_\_ Type: \_\_\_\_\_  
Manufacturer: \_\_\_\_\_  
Serial Number: \_\_\_\_\_ Date of manufacture: \_\_\_\_\_  
H.P. Rated: \_\_\_\_\_ H.P. Max.: \_\_\_\_\_ Inertia Constant: \_\_\_\_\_ lb.-ft.<sup>2</sup>  
Energy Source (hydro, steam, wind, etc.) \_\_\_\_\_  
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**GENERATOR TRANSFORMER (Complete all applicable items)**

**TRANSFORMER (between generator and utility system)**  
Generator unit number: \_\_\_\_\_ Date of manufacturer: \_\_\_\_\_  
Manufacturer: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
High Voltage: \_\_\_\_\_ KV, Connection: delta wye, Neutral solidly grounded?  
Low Voltage: \_\_\_\_\_ KV, Connection: delta wye, Neutral solidly g rounded?  
Transformer Impedance(Z): \_\_\_\_\_ % on \_\_\_\_\_ KVA base.  
Transformer Resistance (R): \_\_\_\_\_ % on \_\_\_\_\_ KVA base.  
Transformer Reactance (X): \_\_\_\_\_ % on \_\_\_\_\_ KVA base.  
Neutral Grounding Resistor (if applicable): \_\_\_\_\_  
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**INVERTER DATA (if applicable)**

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 (%) \_\_\_\_\_  
Maximum Total Harmonic (%) \_\_\_\_\_

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

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**POWER CIRCUIT BREAKER (if applicable)**

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_  
Rated Voltage (kilovolts): \_\_\_\_\_ Rated ampacity (Amperes) \_\_\_\_\_  
Interrupting rating (Amperes): \_\_\_\_\_ BIL Rating: \_\_\_\_\_  
Interrupting medium / insulating medium (ex. Vacuum, gas, oil) \_\_\_\_\_ / \_\_\_\_\_  
Control Voltage (Closing): \_\_\_\_\_ (Volts) AC DC  
Control Voltage (Tripping): \_\_\_\_\_ (Volts) AC DC Battery Charged Capacitor  
Close energy: Spring Motor Hydraulic Pneumatic Other: \_\_\_\_\_  
Trip energy: Spring Motor Hydraulic Pneumatic Other: \_\_\_\_\_  
Bushing Current Transformers: \_\_\_\_\_ (Max. ratio) Relay Accuracy Class: \_\_\_\_\_  
Multi ratio? No Yes: (Available taps) \_\_\_\_\_  
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**ADDITIONAL INFORMATION**

*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.*

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**PART 3  
INSURANCE INFORMATION**

The following information is a requirement for any member wishing to interconnect generation equipment. A minimum of one hundred thousand dollars (\$100,000) liability coverage is required.

Insurer: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_  
Representative/Agent: \_\_\_\_\_ Email Address: \_\_\_\_\_  
Policy Number: \_\_\_\_\_ Coverage Amount: \_\_\_\_\_

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**END OF PART 3**

**SIGN OFF AREA**

The member agrees to provide the Cooperative with any additional information required to complete the interconnection. The member shall operate his equipment within the guidelines set forth by the cooperative.

\_\_\_\_\_  
Applicant Date

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**ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:**

Cooperative contact: Christopher Cherenzia  
Title: Manager of Marketing  
Address: P. O. Box 512  
DeFuniak Springs, FL 32435  
Phone: (850) 892-2111 extension 121  
Fax: (850) 892-9243  
E-mail: ccherenzia@chelco.com

**Choctawhatchee Electric Cooperative, Inc.  
2009 Net Metering Reporting Requirements**

**Reporting Requirements for 2009**

(a) Total number of customer owned renewable generation interconnections

**10**

(b) Total kW capacity of customer owned renewable generation interconnected

**45.74 kW**

(c) Total kWh received by interconnected customers from the electric utility

Month	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	2009 Total
kWh	8202	11418	8842	7843	9105	11770	18006	13614	10789	10771	7306	8771	<b>126437</b>

(d) Total kWh of customer-owned renewable generation delivered to the electric utility

Month	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	2009 Total
kWh	43	38	45	61	303	539	584	2229	1128	1674	1957	1692	<b>10293</b>

(e) Total energy payments made to interconnected customers for customer-owned renewable generation delivered to the electric utility

In 2009: **\$1,011.45**

Since Rule Implementation: **\$1,026.71**

**Choctawhatchee Electric Cooperative, Inc.  
2009 Net Metering Reporting Requirements**

**Additional Reporting Requirement 2009**

(f) For each individual customer-owned renewable generation interconnection:

1. Renewable technology utilized;
2. Gross power rating;
3. Geographic location by county; and
4. Date interconnected.

**2009 Net Metering Interconnections**

	<u>Name</u>	<u>Technology</u>	<u>Power Rating</u>	<u>County &amp; State</u>	<u>Connect Date</u>
1	Jack Flanders	Solar	1 kW	Okaloosa	May-08
2	Robert A Larson	Solar	3.168 kW	Walton	Mar-09
3	Carl E Block	Solar	5.04 kW	Okaloosa	May-09
4	Janice G Shaw	Solar	7.8 kW	Walton	Jul-09
5	Eric Scheufler	Solar	5 kW	Walton	Jul-09
6	A & S Steel Framing	Solar	6.08 kW	Walton	Jul-09
7	Janet Hardy	Solar	5 kW	Walton	Aug-09
8	Vicki S Mann	Solar	5 kW	Okaloosa	Sep-09
9	Ted R. Melcher, Jr.	Solar	5.25 kW	Walton	Nov-09
10	Joseph Williams	Wind	2.4 kW	Okaloosa	Nov-09