

Duke Energy Carolinas

North Carolina Interconnection Request Checklist

(for inverter based-technologies no larger than 10kW)

The North Carolina Utilities Commission issued *North Carolina Interconnection Procedures, Forms, And Agreements For State-Jurisdictional Generator Interconnections* (“NC Interconnection Standard”) in Docket E-100, Sub 101 on June 9, 2008. This new NC Interconnection Standard affects all new customer generation interconnections that are state jurisdictional regardless of size or connection to the distribution or transmission grid. Information on the new interconnection standard is located on the Duke Energy Website at <http://www.duke-energy.com/customer-owned-generation/nc-main.asp>.

- 1. Interconnection Request:** The Section 2. *Optional 10kW Inverter Process for Certified Inverter-Based Generating Facilities No Larger than 10kW* is available for inverter-based generating facilities no larger than 10 kW that meet the codes, standards, and certification requirements of Attachments 3 and 4 of the North Carolina Interconnection Procedures, or the Utility has reviewed the design or tested the proposed generating facility and is satisfied that it is safe to operate.

To submit an interconnection request for net metering or to sell the output to Duke Energy Carolinas use Attachment 5, *Interconnection Request for Interconnecting a Certified Inverter-Based Generating Facility No Larger than 10 kW* of the North Carolina Interconnection Standard.

If the project is larger than 10 kW or is not inverter-based use Attachment 2, *North Carolina Interconnection Request* to submit a request for interconnection.

- 2. Application Fee:** A non-refundable processing fee of \$100 should accompany the *Interconnection Request*.
- 3. Electrical one-line diagram:** An electrical one-line drawing depicting the project and the equipment to be installed should accompany the *Interconnection Request*. The one-line diagram should include the project and owner name and address, model numbers and nameplate sizes of equipment, including solar panels, inverters, wind turbines, etc. It should also depict the metering arrangement, whether “net metering” or directly connected to the grid through a separate meter and delivery.
- 4. North Carolina Utilities Commission (“NCUC”) Certificate of Public Convenience And Necessity:** North Carolina state law requires that all sources of generation comply with the North Carolina Certificate of Public Convenience and Necessity process before construction on a project begins.

Renewable energy projects less than 2 MW (2,000 KW) in size are not required to obtain a “certificate”; however projects must report their proposed construction to the Commission and supply the information detailed in Commission Rule 8-65 before construction begins.

Information on this process can be found on the Duke Energy Carolinas Customer Generation Website at <http://www.duke-energy.com/customer-owned-generation/nc-certificate.asp> or directly on the North Carolina Utilities Commission website under Commission Rule 8-64 and Rule 8-65.

A copy of the report to the NCUC should accompany the *Interconnection Request*.

- 5. FERC Qualifying Facility Status:** A generating facility proposing to sell electricity to Duke Energy Carolinas under a Purchased Power Agreement on Rate Schedule PP-N(NC) or Schedule PP-H(NC) must be a “*Qualifying Facility*” as defined by the Public Utility Regulatory Policies Act of 1978 (“PURPA”) and the Federal Energy Regulatory Commission (“FERC”) regulations implementing PURPA. A “Qualifying Facility” is one that meets certain federal guidelines and qualifies to receive avoided cost payments from the utility (Rate Schedule PP-N or Schedule PP-H).

Instructions for completing this simple, self-registration process with the FERC are found on the Duke Energy Carolinas Customer Generation Website under *Obtaining FERC Qualifying Facility Status* or directly on the Federal Energy Regulatory Commission’s website located at www.ferc.gov.

A copy of the FERC QF Certificate filing should accompany the *Interconnection Request*.

- 6. Insurance Certificate:** Residential customers are required to demonstrate liability insurance coverage maintained with an insurer authorized to do business in North Carolina. The required coverage shall be a standard homeowner’s insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.

Non-residential customers are required to demonstrate liability insurance coverage maintained with an insurer authorized to do business in North Carolina. The required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$300,000 per occurrence.

An insurance certificate from the insurer should accompany the *Interconnection Request*

- 7. Purchased Power Agreement:** If the projects intends to sell its production to Duke Energy Carolinas on Rate Schedule PP-N(NC) or Schedule PP-H(NC), Duke Energy Carolinas will prepare a Purchased Power Agreement based on the interconnection request and mail for signature.
- 8. Contingent Approval to Interconnect:** Duke Energy Carolinas will return a copy of the Interconnection Request granting contingent approval to install the facility. Please note that interconnection of the Generating Facility will be approved contingent upon the Terms and Conditions for Interconnecting a Certified Inverter-Based Generating Facility No Larger than 10 kW of the North Carolina Interconnection Standard. Submission of any remaining documents and Duke Energy’s field inspection is required before final approval can be granted.
- 9. Certificate of Completion:** Attachment 5 of the NC Interconnection Standard includes a *Certificate of Completion* form to be returned to Duke Energy, along with a copy of the local electrical inspection approval, when the installation of the project is complete. Submission of this document signifies that the project is installed, has been inspected by the local electrical inspector, and is ready for Duke Energy’s final inspection.

Good luck with the development of your project.

Effective June 10, 2008