



South River Electric Membership Corporation

A Touchstone Energy® Cooperative 

Interconnection for Distributed Resources Standard

Section 1. General Requirements

1.1 Applicability

This Standard contains the requirements for interconnection of Distributed Resources (DR) and parallel operation of Generation Facilities with the distribution system of South River EMC.

- a) A request to interconnect a (DR) that has a certified generating facility no larger than 50 kw shall be evaluated under the Section 2—50 kw Interconnection Process. (See Attachments 3 and 4 for certification criteria.)
- b) A request to interconnect a (DR) that has a certified generating facility larger than 50 kw and no larger than 1,000 kw shall be evaluated under the Section 3. (See Attachments 3 and 4 for certification criteria.)
- c) A request to interconnect a (DR) larger than 1,000 kw / 1 mw, shall be evaluated under the Section 4—Study Process. The study process shall be subject to the requirements of the applicable transmission owner, and may require special metering and other equipment as required by the transmission owner on a case by case basis as determined by the study process.
- d) Capitalized terms used herein shall have the meanings specified in the Glossary of Terms in attachment 1 or the body of these procedures.
- e) This standard shall not apply to generating facilities already interconnected or approved for interconnection as of the effective date of this Standard, unless so agreed to by the Cooperative and the DR owner. However, this Standard shall apply if the DR owner proposes material modifications or transfers ownership of the DR generating facility after that date.

1.2 Pre-Request

On its Web site, South River EMC will provide a means to contact an appropriate representative to address informal requests and questions regarding interconnection.

1.3 Interconnection request

The DR owner shall submit its Interconnection request to the Cooperative, together with the non-refundable processing fee or deposit specified in the Interconnection request (if applicable). If the Interconnection request does not provide sufficient information, the Cooperative may request that the DR owner provide supplemental information. If the DR owner does not provide the necessary information within a reasonable period following such a request, the Interconnection request will be deemed withdrawn.

1.4 Modification of the Interconnection request

Material modification of the interconnection request by the Interconnection request is neither permitted nor effective absent written agreement of the Cooperative, and may be deemed a withdrawal of the Interconnection request such that re-submission of a new Interconnection request may be required.

1.5 Site Control

Documentation of site control will not ordinarily be required when submitting an interconnection request. However, the Cooperative may request satisfactory evidence of site control before the Cooperative makes a significant investment in interconnection facilities or distribution upgrades, or if two or more proposed generating facilities are competing for capacity on the same circuit. Further, the Cooperative will typically require the DR owner to pay in advance for such investment or to defray the costs of upgrades to, or installation of, facilities necessary for interconnection. The DR owner who can demonstrate site control will have a higher queue position than one that is on the same circuit and cannot demonstrate site control. The DR owner must submit documentation of site control to the Cooperative at or before the time of final execution of the interconnection agreement. Site control may be demonstrated through:

- a) Ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing the generating facility;
- a) An option to purchase or acquire a leasehold site for such purpose; or
- b) An exclusive or other business relationship between the DR owner and the entity having the right to sell, lease, or grant the DR owner the right to possess or occupy a site for such purpose.

1.6 Queue Position

The Cooperative shall assign a queue position based upon the order of submission of the Interconnection request, if necessary. The queue position of each interconnection request will be used to determine the cost responsibility for the upgrades necessary to accommodate the interconnection. At the Cooperative's option, interconnection requests may be studied serially or in clusters for the purpose of the system impact study, should one be required. (See Section 4.4)

1.7 Interconnection requests Submitted Prior to the Effective Date of these Procedures

Nothing in this Standard affects a DR owner's queue position assigned before the effective date of these procedures. The parties agree to complete work on any interconnection study agreement executed prior to the effective date of these procedures in accordance with the terms and conditions of that interconnection study agreement. Any new studies or other additional work will be completed pursuant to this standard.

Section 2. 50 kw Process for Interconnecting Certified Inverter-based Generating Facilities No Larger than 50 kw

2.1 Applicability

The 50 kw process is available to an DR owner proposing to interconnect its DR generating facility with the Cooperative's system if the DR generating facility is no larger than 50 kw and if the DR owner's proposed DR generating facility meets the codes, standards, and certification requirements of Attachments 3 and 4 of these procedures, or the Cooperative has reviewed the design or tested the proposed DR generating facility and is satisfied that it is safe to operate. The Cooperative is requiring the DR owner to install a manual load-break disconnect switch or safety switch (External Disconnect Switch) as a clear visible indication of switch position between the Cooperative system and the DR owner. (See also Section 5.16 and the Glossary of Terms).

2.2 Interconnection Request

The DR owner shall complete the interconnection request for a certified inverter-based generating facility no larger than 50 kw and submit it to the Cooperative, together with the non-refundable processing fee specified in the Interconnection request, if applicable. The Cooperative shall verify that the generating facility can be interconnected safely and reliably as provided in the Fast Track Process (See Section 3.3), and then advise the DR owner.

2.3 Certificate of Completion

- a) After installation of the generating facility, the DR owner shall return the Certificate of Completion to the Cooperative. (See Attachment 5). Prior to parallel operation, the Cooperative may inspect the Generating facility for compliance with standards, which will typically include a witness test, and may schedule appropriate metering replacement, in its sole discretion.
- b) The Cooperative shall notify the DR owner in writing that interconnection of the Generating facility is authorized. If the witness test is not satisfactory, the Cooperative has the right to disconnect the generating facility. The DR owner has no right to operate in parallel with the Cooperative until a witness test has been performed, or previously waived on the Interconnection request.
- c) Interconnection and parallel operation of the generating facility is subject to the Terms and Conditions stated in Attachment 4 of these procedures.

2.4 Contact Information

The DR owner must provide the contact information for the legal applicant (i.e., the DR owner). If another entity is responsible for interfacing with the Cooperative, that contact information must also be provided on the Interconnection request.

2.5 Ownership Information

The DR owner shall provide the legal name(s) of the owner(s) of the generating facility.

2.6 UL 1741 Listed

DR generator must be in compliance with UL 1741 standards as “utility interactive” (or induction system standards) at all times, the terms and conditions of which are hereby incorporated by reference as if set forth fully herein.

Section 3. Fast Track Process for Interconnecting Certified Generating Facilities Larger than 50 kw and No Larger than 1,000 kw / 1mw

3.1 Applicability

The Fast Track Process is available to an DR owner proposing to interconnect its generating facility with the Cooperative’s system if the generating facility is larger than 50 kw and no larger than 1,000 kw / 1 mw and if the DR owner’s proposed generating facility meets the codes, standards, and certification requirements of Attachments 3 and 4 of these procedures, or the Cooperative has reviewed the design or tested the proposed generating facility and is satisfied that it is safe to operate.

3.2 Initial Review

After the Cooperative notifies the DR owner it has received a complete interconnection request, the Cooperative will perform an initial review using the screens described below in Section 3.3.

3.3 Screens

- a) The proposed generating facility’s point of interconnection must be on a portion of the Cooperative’s Distribution System.
- b) For interconnection of a proposed generating facility to a radial distribution circuit, the aggregated generation on the circuit, including the proposed generating facility, shall not exceed 15% of the line section annual peak load as most recently measured at the substation. A line section is that portion of a Cooperative’s system connected to a member bounded by automatic sectionalizing devices or the end of the distribution line.
- c) The proposed generating facility, in aggregation with other generation on the distribution circuit, shall not contribute more than 10% to the distribution circuit’s maximum fault current at the point on the high voltage (primary) level nearest the proposed point of change of ownership.
- d) The proposed generating facility, in aggregate with other generation on the distribution circuit, shall not cause any distribution protective devices and equipment (including, but

not limited to, substation breakers, fuse cutouts, and line reclosers), or DR owner equipment on the system to exceed 87.5% of the short circuit interrupting capability; nor shall the interconnection be proposed for a circuit that already exceeds 87.5% of the short circuit interrupting capability.

- e) The table below will be used to determine the type of interconnection to a primary distribution line. This screen includes a review of the type of electrical service provided to the DR owner, including line configuration and the transformer connection to limit the potential for creating over-voltages on the Cooperative’s system due to a loss of ground during the operating time of any anti-islanding function.

Primary Distribution Line Type	Type of Interconnection to Primary Distribution Line	Result/Criteria
Three-phase, three wire	Three-phase or single-phase, phase-to-phase	FAIL Screen
Three-phase, four wire	Effectively-grounded three-phase or single-phase, line-to-neutral	PASS Screen

- f) If the generating facility system is integrated with storage, the inverter must be certified so as to rule out any risk of back feeding.
- g) If the proposed generating facility is to be interconnected on single-phase shared secondary, the aggregate generation capacity on the shared secondary, including the proposed generating facility, shall not exceed 50 kw.
- h) If the proposed generating facility is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition shall not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.
- i) The generating facility, in aggregate with other generation interconnected to the transmission side of a substation transformer feeding the circuit where the generating facility proposes to interconnect shall not exceed 10 mw in an area where there are known, or posted, transient stability limitations to generating units located in the general electrical vicinity (e.g., three or four transmission busses from the point of interconnection).
- j) No construction of facilities by the Cooperative on its own system shall be required to accommodate the generating facility.
- k) If the proposed interconnection passes the screens, the interconnection request shall be approved and the Cooperative will provide the DR owner an executable interconnection agreement after the determination, as described further in Section 5.6.
- l) If the proposed interconnection fails the screens, but the Cooperative determines that the generating facility may nevertheless be interconnected consistent with safety, reliability, and power quality standards, the Cooperative may provide the DR owner an executable interconnection agreement, to be completed in accordance with the timeline provided in Section 5.6.

- m) If the proposed interconnection fails the screens, but the Cooperative does not or cannot determine from the initial review that the Generating facility may nevertheless be interconnected consistent with safety, reliability, and power quality standards unless the DR owner is willing to consider minor modifications or further study, the Cooperative may provide the DR owner with the opportunity to attend a DR owner options meeting.

3.4 DR Owner Options Meeting

If the Cooperative determines the interconnection request cannot be approved without minor modifications at minimal cost; or a supplemental study or other additional studies or actions; or at significant cost to address safety, reliability, or power quality problems, after the determination, the Cooperative will notify the DR owner of its conclusion and offer to convene a DR owner options meeting to review possible DR owner facility modifications or the screen analysis and related results, to determine what further steps are needed to permit the generating facility to be connected safely and reliably. At the time of notification of the Cooperative's determination, or at the DR owner options meeting, the Cooperative may:

- a) Offer to perform facility modifications or minor modifications to the Cooperative's system (e.g., changing meters, fuses, relay settings) and provide a non-binding good faith estimate of the limited cost to make such modifications to the Cooperative's system; or
- b) Offer to perform a supplemental review if the Cooperative concludes that the supplemental review might determine that the generating facility could continue to qualify for interconnection pursuant to the Fast Track Process, and provide a non-binding good faith estimate of the costs of such review; or
- c) Offer to continue evaluating the interconnection request under the Section 4 Study Process.

3.5 Supplemental Review

If the DR owner agrees to a supplemental review, the DR owner shall agree in writing within 15 Business Days of the offer, and submit a deposit for the estimated costs. The DR owner shall be responsible for the Cooperative's actual costs for conducting the supplemental review. The DR owner must pay any review costs that exceed the deposit within 20 Business Days of receipt of the invoice or resolution of any dispute. If the deposit exceeds the invoiced costs, the Cooperative will return such excess without interest.

Following receipt of the deposit for a supplemental review, the Cooperative will determine if the Generating facility can be interconnected safely and reliably.

- a) If so, the Cooperative shall forward an executable interconnection agreement to the DR owner, to be completed in accordance with the timeline provided in Section 5.6.
- b) If so, and DR owner facility modifications are required to allow the generating facility to be interconnected consistent with safety, reliability, and power quality

standards under these procedures, the Cooperative will forward an executable interconnection agreement to the DR owner after confirmation that the DR owner has agreed to make the necessary modifications at the DR owner's cost, to be completed in accordance with the timeline provided in Section 5.6.

- c) If so, and minor modifications to the Cooperative's system are required to allow the Generating facility to be interconnected consistent with safety, reliability, and power quality standards under these procedures, the Cooperative shall forward an executable interconnection agreement to the DR owner that requires the DR owner to pay the costs of such system modifications prior to interconnection, to be completed in accordance with the timeline provided in Section 5.6.
- d) If not, the interconnection request will continue to be evaluated under the Section 4 Study Process, provided the DR owner indicates it wants to proceed and submits the required deposit within 15 Business Days.

Section 4. Study Process

4.1 Applicability

The study process shall be used by an DR owner proposing to interconnect its generating facility with the Cooperative's system if the generating facility is larger than 1,000 kw / 1 mw, is not certified, or is certified but did not pass the Fast Track Process or the 50 kw inverter process. All generating facilities larger than 1,000 kw MUST use the study process.

4.2 Scoping Meeting

- a) A scoping meeting will be held as soon as practicable after the interconnection request is deemed complete, or as otherwise mutually agreed to by the parties. The Cooperative and the DR owner will bring to the meeting personnel, including system engineers and other resources as may be reasonably required to accomplish the purpose of the meeting. The scoping meeting may be omitted by mutual agreement.
- b) The purpose of the scoping meeting is to discuss the interconnection request and review existing studies relevant to the Interconnection request. The parties shall further discuss whether the Cooperative should perform a feasibility study or proceed directly to a system impact study, a facilities study, or an interconnection agreement.
- c) If the parties agree that a feasibility study should be performed, the Cooperative will provide the DR owner a feasibility study agreement (Attachment 6), including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.
- d) If the parties agree not to perform a feasibility study, but to proceed directly to a system impact study or facilities study, the Cooperative will provide the DR owner either a system impact study agreement (Attachment 7) or a facilities study agreement (Attachment 8), as appropriate, including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.

- e) If the parties agree not to perform a feasibility study, but to proceed directly to an interconnection agreement, the Cooperative shall provide the DR owner an executable interconnection agreement, to be completed in accordance with the timeline provided in Section 5.6.

4.3 Feasibility study

- a) The feasibility study shall identify any potential adverse system impacts that would result from the interconnection of the Generating facility.
- b) In order to remain in consideration for interconnection, the DR owner must return the executed feasibility study agreement within 15 Business Days.
- c) A deposit of the lesser of 50% of the good faith estimated feasibility study costs or earnest money of \$1,000 may be required from the DR owner.
- d) The scope of and cost responsibilities for the feasibility study are described in the feasibility study agreement.
- e) If the feasibility study shows no potential for adverse system impacts, the Cooperative will send the DR owner a facilities study agreement, including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study. If a facilities study is not required, the Cooperative shall send the DR owner an executable interconnection agreement, to be completed in accordance with the timeline provided in Section 5.6.
- f) If the feasibility study shows the potential for adverse system impacts, the review process shall proceed to the appropriate system impact studies.

4.4 System Impact Studies

- a) The system impact studies shall identify and detail the electric system impacts that would result if the proposed generating facility were interconnected without project modifications or electric system modifications, focusing on the adverse system impacts identified in the feasibility study, or to study potential impacts, including, but not limited to, those identified in the scoping meeting. The system impact studies shall evaluate the impact of the proposed interconnection on the reliability of the electric system.
- b) If potential adverse distribution system impacts are identified in the scoping meeting or shown in the feasibility study, a distribution system impact study must be performed. The Cooperative will send the DR owner a distribution system impact study agreement after transmittal of the feasibility study or the scoping meeting if no feasibility study is to be performed, including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.
- c) If potential adverse transmission system impacts are identified in the scoping meeting or shown in the feasibility study or distribution system impact study, a transmission system impact study must be performed. The Cooperative will send the DR owner a transmission system impact study agreement after transmittal of the feasibility study or distribution system impact study or the scoping meeting if no feasibility study or

distribution system impact study is to be performed, including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.

- d) In order to remain under consideration for interconnection, the DR owner must return an executed system impact study agreement within 30 business days.
- e) A deposit of the good faith estimated cost of a distribution system impact study and one half of the good faith estimated cost of a transmission system impact study will be required from the DR owner.
- f) The scope of and cost responsibilities for a system impact study are described in the system impact study agreement.
- g) If the system impact studies show no potential for adverse system impacts, the Cooperative will send the DR owner a facilities study agreement, including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study. If no additional facilities are required, the Cooperative will send the DR owner an executable interconnection agreement, to be completed in accordance with the timeline provided in Section 5.6.

4.5 Facilities Study

- a) The facilities study shall specify and estimate the cost of the equipment, engineering, procurement and construction work (including overheads) needed to implement the conclusions of feasibility study and/or system impact studies and to allow the generating facility to be interconnected and operated safely and reliably.
- b) The Cooperative shall design any required interconnection facilities and/or upgrades under the facilities study agreement. The Cooperative may contract with consultants to perform activities required under the facilities study agreement. The DR owner and the Cooperative may agree to allow the DR owner to separately arrange for the design of some of the interconnection facilities. In such cases, facilities design will be reviewed and/or modified prior to acceptance by the Cooperative, under the provisions of the facilities study agreement. If the parties agree to separately arrange for design and construction, and provided security and confidentiality requirements can be met, the Cooperative will make sufficient information available to the DR owner in accordance with confidentiality and critical infrastructure requirements to permit the DR owner to obtain an independent design and cost estimate for any necessary facilities.
- c) In order to remain under consideration for interconnection, or, as appropriate, in the Cooperative's interconnection queue, the DR owner must return the executed facilities study agreement or a request for an extension of time within 30 business days.
- d) A deposit of the good faith estimated costs for the facilities study may be required from the DR owner.
- e) The scope of and cost responsibilities for the facilities study are described in the facilities study agreement.
- f) Upon completion of the facilities study, and with the agreement of the DR owner to pay for interconnection facilities and upgrades identified in the facilities study, the

Cooperative shall provide the DR owner an executable interconnection agreement, to be completed in accordance with the timeline provided in Section 5.6.

Section 5. Provisions that Apply to All Interconnection requests

5.1 Reasonable Efforts

The Cooperative will make reasonable efforts to accomplish the steps described in these procedures as soon as practicable, unless the Cooperative and the DR owner agree to a different schedule, bearing in mind that such steps will be delayed, in the Cooperative's sole discretion, when necessary or appropriate to ensure uninterrupted performance of the Cooperative's operational requirements.

5.2 Disputes

- a) The parties agree to attempt to resolve all disputes arising out of the interconnection process according to the provisions of this section.
- b) In the event of a dispute, either Party shall provide the other party with a written notice of dispute. Such notice shall describe in detail the nature of the dispute.
- c) As soon as practicable following issuance of the notice of dispute, the parties shall schedule a meeting of senior personnel to discuss, in good faith, potential resolution of the underlying dispute.
- d) If this meeting does not result in settlement of the dispute, the matter shall then be referred to mediation before a mediator mutually acceptable to the Parties, preferably with industry-specific experience. The mediation shall be conducted in the offices of the Cooperative. If the parties cannot agree on a particular mediator, then they shall request that the mediator be selected by the Superior Court in the county in which the Cooperative is located.
- e) If mediation fails to resolve the dispute, each party is then free to pursue its legal remedies, if any.

5.3 Interconnection Metering

Any metering necessitated by the use of the generating facility shall be installed at the DR owner's expense in accordance with all applicable regulatory requirements and the Cooperative's specifications.

5.4 Commissioning

Commissioning tests of the DR owner's installed equipment shall be performed pursuant to applicable codes and standards. The Cooperative must be given at least five business days written notice, or as otherwise mutually agreed to by the parties, of the tests and may be present to witness the commissioning tests.

5.5 Confidentiality

- a) Confidential information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential."
- b) Confidential information does not include information previously in the public domain, required to be publicly submitted or divulged by governmental authorities, or necessary to be divulged in an action to enforce these procedures. Each party receiving confidential information shall hold such information in confidence and shall not disclose it to any third party nor to the public without the prior written authorization from the party providing that information, except to fulfill obligations under these procedures, or to fulfill legal or regulatory requirements.
- c) Each party shall employ at least the same standard of care to protect confidential information obtained from the other party as it employs to protect its own confidential information.
- d) Each party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of confidential information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.
- e) If information is requested by the Commission from one of the parties that is otherwise required to be maintained in confidence pursuant to these procedures, the party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the party may request that the information be treated as confidential and non-public in accordance with North Carolina law and that the information be withheld from public disclosure.

5.6 Interconnection Agreement

After receiving an interconnection agreement from the Cooperative, the DR owner shall have 30 business days, or another mutually agreeable timeframe, to sign and return the interconnection agreement. If the DR owner does not sign the interconnection agreement within such time, the interconnection request shall be deemed withdrawn. The Cooperative may waive the withdrawal if no other interconnection requests are pending for generating facilities that propose to interconnect to the same circuit on the Cooperative's system. After the parties sign the interconnection agreement, the interconnection of the generating facility shall proceed under the provisions of the interconnection agreement.

5.7 Coordination with Affected Systems

The Cooperative will typically coordinate the conduct of any studies required to determine the impact of the Interconnection request on affected systems with affected system operators and, if possible, include those results (if available) in its applicable studies within a reasonable timeframe. The Cooperative will endeavor to include such affected system operators in all meetings held with the DR owner. The DR owner will cooperate with the Cooperative in all

matters related to the conduct of studies and the determination of modifications to Affected Systems.

5.8 Capacity of the Generating facility

- a) If the Interconnection request is for an increase in capacity for an existing generating facility, the interconnection request shall be evaluated on the basis of the new total capacity of the generating facility.
- b) If the interconnection request is for a generating facility that includes multiple energy production devices at a site for which the DR owner seeks a single point of interconnection, the interconnection request shall be evaluated on the basis of the aggregate capacity of the multiple devices, unless otherwise agreed to by the Cooperative and the DR owner.
- c) The interconnection request shall be evaluated using the maximum rated capacity of the generating facility, unless otherwise agreed to by the Cooperative and the DR owner.

5.9 Interconnection Agreement Non-Transferable

- a) The interconnection agreement is non-transferable. The DR owner shall notify the purchaser of the DR generating facility that a new interconnection request must be submitted to the Cooperative within 20 business days of the transfer of ownership or the Cooperative's interconnection facilities shall be removed or disabled and the generating facility disconnected from the Cooperative's system.
- b) The technical requirements in the interconnection agreement shall be grandfathered for subsequent owners as long as (1) the generating facility's maximum rated capacity has not been changed; (2) the generating facility has not been modified so as to change its electrical characteristics; and (3) the interconnection system has not been modified.

5.10 Isolating or Disconnecting the Generating facility

- a) Cooperative may isolate the DR owner's premises and/or DR generating facility from the Cooperative's system when necessary in order to construct, install, repair, replace, remove, investigate or inspect any of the Cooperative's equipment or part of Cooperative's system; or if the Cooperative determines that isolation of the DR owner's premises and/or generating facility from the Cooperative's system is necessary, in the Cooperative's sole discretion, because of emergencies, forced outages, force majeure or compliance with prudent electrical practices.
- b) When feasible, the Cooperative will typically give the DR owner reasonable notice of the isolation of the DR owner's premises and/or DR generating facility from the Cooperative's system.
- c) Notwithstanding any other provision of this standard, if at any time the Cooperative determines that the continued operation of the DR generating facility may endanger either (1) the Cooperative's personnel or other persons or property or (2) the integrity or safety of the Cooperative's system, or otherwise cause unacceptable power quality problems for other electric consumers, the Cooperative shall have the right to isolate the

DR owner's premises and/or generating facility from the Cooperative's system without prior notice.

- d) The Cooperative may disconnect from the Cooperative's system, without prior notice, any generating facility determined to be malfunctioning, or not in compliance with this standard. The DR owner must provide proof of compliance with this Standard before the generating facility will be reconnected.

5.11 Limitation of Liability

The Cooperative's liability to the DR owner for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission hereunder, shall be limited to the amount of direct damage actually incurred. In no event shall the Cooperative be liable to the DR owner for any indirect, special, incidental, consequential, or punitive damages of any kind. Under no circumstances will the Cooperative be liable or responsible for lost profits, business interruption damages or costs, or damages associated with DR owner's inability to sell the electricity from the DR Generating facility.

5.12 Indemnification

The DR owner shall at all times indemnify, defend and save the Cooperative harmless from any and all damages, losses, claims, including claims and actions relating to injury or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney's fees, and all other obligations by or to third parties, arising out of or resulting from the DR owner's (or its agents or representatives) action or inaction of its obligations hereunder.

5.13 Insurance

The DR owner shall obtain and retain, for as long as the generating facility is interconnected with the Cooperative's system, liability insurance which protects the DR owner from claims for bodily injury and/or property damage. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generating equipment being interconnected, the interconnection itself, and the characteristics of the system to which the interconnection is made. This insurance shall be primary for all purposes. The DR owner shall provide certificates evidencing this coverage as required by the Cooperative. Such insurance shall be obtained from an insurance provider authorized to do business in North Carolina. The Cooperative reserves the right to refuse to establish or continue the interconnection of the Generating facility with the Cooperative's system, if such insurance is not in effect.

- a. For a DR owner that is a residential member of the Cooperative proposing to interconnect a generating facility no larger than 50 kw, the required coverage shall be a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.

- b. For a DR owner that is a non-residential entity proposing to interconnect a generating facility no larger than 1,000 kw, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$300,000 per occurrence.
- c. For a DR owner that is a non-residential entity proposing to interconnect a Generating facility larger than 1,000 kw, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$1,000,000 per occurrence.
- d. A DR owner of sufficient credit-worthiness may propose to provide this insurance via a self-insurance program if it has a self-insurance program established in accordance with commercially acceptable risk management practices.

5.14 External Disconnect Switch (EDS)

In order to comply with the Final Rule of the Rural Utilities Service regarding the Interconnection of Distributed Resources (IDR) as codified at 7 C.F.R. Part 1730, Subpart C, the Cooperative requires that the Interconnection Facilities shall include a lockable disconnect and visible open EDS that is readily accessible to and operable by authorized Cooperative personnel at all times. The EDS is a manual load break disconnect switch or safety switch with a clear visible indication of switch position between the Cooperative system and the DR owner. The switch must have pad lock provisions for locking in the open position. The switch must be visible to, and accessible to, Cooperative personnel. The switch must be in close proximity to, and on the DR owner's side of the point of electrical interconnection with, the Cooperative's system. The switch must be labeled "Generator Disconnect Switch." The switch may isolate the DR owner and its associated load from the Cooperative 's System or disconnect only the Generator from the Cooperative 's System and shall be accessible to the Cooperative at all times. The Cooperative, in its sole discretion, determines if the switch is suitable and necessary.

South River EMC

Interconnection Standard - Glossary of Terms

50 kw Interconnection Process – The procedure for evaluating a request for Interconnection of Distributed Resources (IDR) for a certified Generating Facility no larger than 50 kw that uses the Section 3 screens. The application process uses an all-in-one document that includes a simplified request for Interconnection for Distributed Resources (DR), simplified procedures, and a brief set of Terms and Conditions.

Affected System – An electric system other than the Cooperative’s System that may be affected by the proposed interconnection. The owner of an Affected System might be a Party to the Interconnection Agreement or other study agreements needed to interconnect the Generating Facility.

Applicable Laws and Regulations – All duly promulgated applicable federal, state and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any governmental authority.

Business Day – Monday through Friday, excluding federal and state holidays.

Commission – The North Carolina Utilities Commission. It should be noted that the Commission does not have regulatory authority over Cooperatives regarding Interconnection Agreements, Procedures and Forms. The Cooperative is governed by its Board of Directors, which approves Cooperative policies, service rules, regulations, procedures, and rates. As a borrower from the Rural Utilities Service (RUS) of the U.S. Department of Agriculture, the Cooperative is required to follow RUS rules and regulations and this Agreement meets the Final Rule of the “Interconnection of Distributed Resources” *74 Fed. Reg. 32406* (July 8, 2009) (Codified at 7 C.F.R. Part 1730, Subpart C).

Cooperative – The entity that owns, controls, or operates facilities used for providing electric service in its designated service area that the Interconnection Member is located.

Default – The failure of a breaching Party to cure its breach under the Interconnection Agreement.

Distributed Resources – Sources of electric power that are not directed connected to a bulk power transmission systems, having an installed capacity of not more than 10 MVA / 10 MW, connected to the Cooperative’s electric power distribution system through a point of common coupling. Distributed resources include both generators of electricity and electric storage technologies.

Distribution System – The Cooperative’s facilities and equipment used to transmit electricity to ultimate usage points such as homes and businesses from nearby generators or from interchanges with higher voltage transmission networks owned by so-called investor-owned utilities (“IOUs”), which transport bulk power over longer distances. The voltage levels at which Distribution Systems operate differ among areas.

Distribution Upgrades – The additions, modifications, and upgrades to the Cooperative's Distribution System at or beyond the Point of Interconnection to facilitate interconnection of the Generating Facility

and render the service necessary to allow the Generating Facility to operate in parallel with the Cooperative and to inject electricity onto the Cooperative's System. Distribution Upgrades do not include Interconnection Facilities.

Fast Track Process – The procedure for evaluating an Interconnection Request for a certified Generating Facility greater than 25kw but no larger than 1000kw / 1MW that includes the Section 3 screens, member options meeting, and optional supplemental review.

Generating Facility – The Interconnection Member's Distributed Resource device for the production of electricity identified in the Interconnection Request, but shall not include the Interconnection Member's Interconnection Facilities. Also see Distributed Resources.

Governmental Authority – Any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include the Interconnection Member, the Cooperative, or any affiliate thereof.

DR Owner – Any entity, including the Cooperative, which proposes to interconnect its Generating Facility with the Cooperative's System.

Interconnection Facilities – The Cooperative's Interconnection Facilities and the Interconnection Member's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Distributed Resource Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Cooperative's System. Interconnection Facilities are sole use facilities and shall not include Upgrades.

Interconnection Request – The Interconnection Member's request, in accordance with the interconnection procedures, to interconnect a new Distributed Resource Generating Facility, or to increase the capacity of, or make a Material Modification to, an existing Generating Facility that is interconnected with the Cooperative's System.

Material Modification – A modification to machine data or equipment configuration or to the interconnection site of the Generating Facility that has a material impact on the cost, timing or design of any Interconnection Facilities or Upgrades.

Network Upgrades – Additions, modifications, and upgrades to the Cooperative's Transmission System required to accommodate the interconnection of the Generating Facility to the Cooperative's System. Network Upgrades do not include Distribution Upgrades. Upgrades of this sort may be required for Generating Systems greater than 1000kw / 1MW but less than 10 MVA / 10 MW.

Operating Requirements – Any operating and technical requirements that may be applicable due to Regional Reliability Organization, Independent System Operator, control area, or the Cooperative's requirements, including those set forth in the Interconnection Agreement.

Party or Parties – The Cooperative, Interconnection Member, and possibly the owner of an Affected System, or any combination of the above.

Point of Interconnection – The point where the Interconnection Facilities connect with the Cooperative's System.

Prudent Utility Practice (PUP) – Any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. PUP is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region and the utility industry.

Queue Position – The order of a valid Interconnection Request, relative to all other pending valid Interconnection Requests that is established based upon the date and time of receipt of the valid Interconnection Request by the Cooperative and a demonstration of site control, if requested.

Reasonable Efforts – With respect to an action required to be attempted or taken by a Party under the Interconnection Agreement, efforts that are timely and consistent with Prudent Utility Practices and are otherwise substantially equivalent to those a Party would use to protect its own interests.

Renewable Energy Certificates (RECs) – Also known as Renewable Energy Credits or Green Tags, are tradable, non-tangible energy commodities that represent proof that 1 megawatt-hour (MWH) of electricity was generated from an eligible renewable energy resource. In North Carolina, the Commission has established a Renewable Energy Tracking System (NC RETS) to register and certify RECs produced from renewable energy projects providing one REC for every 1,000 kwh of electricity it produces and delivers to electric systems. These RECs are sold and traded separate from commodity electricity and the consumer/owner of the REC receives only a certificate. NC Green Power is an independent, non-profit organization that purchases RECs from small producers in the state.

Standard – The interconnection procedures, forms and agreements approved by the Cooperative for interconnection of Generating Facilities to the Cooperative's System in its service area.

Study Process – The procedure for evaluating an Interconnection Request that includes the Section 4 scoping meeting, feasibility study, system impact study, and facilities study.


System – The facilities owned, controlled or operated by the Cooperative that are used to provide electric service in its service area.

Transmission System – The transmission facilities owned, controlled or operated by the investor-owned utility to which Cooperative's System is interconnected

Upgrades – The required additions and modifications to the Cooperative's System at or beyond the Point of Interconnection. Upgrades may be Network Upgrades or Distribution Upgrades. Upgrades do not include Interconnection Facilities.



**South River Electric
Membership Corporation**

A Touchstone Energy[®] Cooperative 

Renewable Generator Interconnection Application

Service Provider: _____ South River Electric Membership Corporation _____

Service Provider Contact Person: _____ Catherine O'Dell _____

Telephone Number: _____ 910-230-2982 _____

Fax Number: _____ 910-230-2995 _____

E-Mail Address: _____ codell@sremc.com _____

Address: _____ P.O. Box 931, Dunn, NC 28335 (17494 NC Hwy 421 South) _____

An Interconnection Request is considered complete when it provides all applicable and correct information required below.

Preamble and Instructions

A South River Electric Membership Corporation Member who requests interconnection with South River EMC must submit this interconnection request by hand delivery, mail, e-mail or fax.

Request for: Fast Track Process Study Process

(All Generating Facilities larger than 1000 kW / 1 MW must use the Study Process.)

Deposit and Fees

Study Process – Deposit

If the Interconnection Request is submitted under the Study Process, whether a new submission or an Interconnection Request that did not pass the Fast Track Process, the Interconnection Member shall submit to the Cooperative a deposit not to exceed \$1,000 toward study costs. The minimum fee to participate in the Study Process is \$500.

Change in Ownership – Non-Refundable Processing Fee

If the Interconnection Request is submitted solely due to a transfer of ownership of the Generating Facility, the fee is \$50.

Monthly Facilities and Operations Charges

The customer pays 100% of initial installation including necessary system upgrades. For each DR generator, South River EMC will charge a \$5 administrative fee and an operations fee monthly. The Operations Fee is the equivalent of .75% of the cost of all system upgrades necessary to serve the DR generator. This fee will cover the cost of maintenance and replacement of such equipment over the life of the generator.

Interconnection Member Information

Legal Name of the Interconnection Member (or, if an individual, individual’s name)

Name: _____

Contact Person: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Facility Location (if different from above): _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

Alternative Contact Information (if different from the Interconnection Member)

Contact Name: _____

Title: _____

Address: _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

- Application is for:
- New Generating Facility

 - Capacity Addition to Existing Generating Facility

 - Transfer of Ownership of Existing Generating Facility

If capacity addition to existing Generating Facility, please describe:

Will the Generating Facility be used for any of the following?

To Supply Power to the Interconnection Member? Yes No
To Supply Power to the Cooperative? Yes No

For installations at locations with existing electric service to which the proposed Generating Facility will interconnect, provide: _____

(Existing Account Number*)

Contact Name: _____

Title: _____

Address: _____

Telephone (Day): _____ (Evening): _____

Fax: _____ E-Mail Address: _____

Requested Point of Interconnection: _____

Interconnection Member's Requested In-Service Date: _____

Generating Facility Information

Data apply only to the Generating Facility, not the Interconnection Facilities.

Energy Source: Solar Wind Hydro Hydro(Type e.g. Run-of-River) _____
 Diesel Natural Gas Fuel Oil Other (state type) _____

Prime Mover: Fuel Cell Reciprocating Engine Gas Turbine Steam Turbine
 Micro turbine PV Other

Type of Generator: Synchronous Induction Inverter

Generator Nameplate Rating: _____ kW (Typical) Generator Nameplate: _____ kVAR

Interconnection Member or Member-Site Load: _____ kW (if none, so state)

Typical Reactive Load (if known): _____

Maximum Physical Export Capability Requested: _____ kW

Will the Generating Facility also have installed storage? Yes _____ No _____

List components of the Generating Facility equipment package that are currently certified:

Equipment Type	Certifying Entity
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____

5. _____

Is the prime mover compatible with the certified protective relay package? Yes No

Generator (or solar collector)

Manufacturer, Model Name, & Number: _____

Version Number: _____

Nameplate Output Power Rating in kW: (Summer) _____ (Winter) _____

Nameplate Output Power Rating in kVA: (Summer) _____ (Winter) _____

Individual Generator Power Factor

Rated Power Factor: Leading: _____ Lagging: _____

Total Number of Generators in wind farm to be interconnected pursuant to this Interconnection Request: _____ Elevation: _____

Single phase _____ Three phase _____

Inverter Manufacturer, Model Name, & Number (if used): _____

List of adjustable set points for the protective equipment or software: _____

Note: A completed Power Systems Load Flow data sheet must be supplied with the Interconnection Request.

Generating Facility Characteristic Data (for inverter-based machines)

Max design fault contribution current: _____ Instantaneous _____ or RMS? _____

Harmonics Characteristics: _____

Start-up requirements: _____

Generating Facility Characteristic Data (for rotating machines)

RPM Frequency: _____

(*) Neutral Grounding Resistor (if applicable): _____

Synchronous Generators:

Direct Axis Synchronous Reactance, X_d : _____ P.U.

Direct Axis Transient Reactance, X'_d : _____ P.U.

Direct Axis Subtransient Reactance, X''_d : _____ P.U.

Negative Sequence Reactance, X_2 : _____ P.U.

Zero Sequence Reactance, X_0 : _____ P.U.

KVA Base: _____

Field Volts: _____

Field Amperes: _____

Induction Generators:

Motoring Power (kW): _____

$I_2^2 t$ or K (Heating Time Constant): _____

Rotor Resistance, R_r : _____

Stator Resistance, R_s : _____

Stator Reactance, X_s : _____

Rotor Reactance, X_r : _____

Magnetizing Reactance, X_m : _____
Short Circuit Reactance, X_d'' : _____
Exciting Current: _____
Temperature Rise: _____
Frame Size: _____
Design Letter: _____
Reactive Power Required In Vars (No Load): _____
Reactive Power Required In Vars (Full Load): _____
Total Rotating Inertia, H: _____ Per Unit on kVA Base

Note: Please contact the Cooperative prior to submitting the Interconnection Request to determine if the specified information above is required.

Excitation and Governor System Data for Synchronous Generators Only

Provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

Interconnection Facilities Information

Will a transformer be used between the generator and the point of common coupling? Yes No

Will the transformer be provided by the Interconnection Member? Yes No

Transformer Data (if applicable, for Interconnection Member-owned transformer):

Is the transformer: Single phase Three phase Size: _____ kVA

Transformer Impedance: _____ % on _____ kVA Base

If Three Phase:

Transformer Primary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

Transformer Secondary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

Transformer Tertiary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

Transformer Fuse Data (if applicable, for Interconnection Member-owned fuse):

(Attach copy of fuse manufacturer's Minimum Melt and Total Clearing Time-Current Curves)

Manufacturer: _____ Type: _____ Size: _____ Speed: _____

Interconnecting Circuit Breaker (if applicable):

Manufacturer: _____ Type: _____

Load Rating (Amps): _____ Interrupting Rating (Amps): _____ Trip Speed (Cycles): _____

Interconnection Protective Relays (if applicable):

If Microprocessor-Controlled:

List of Functions and Adjustable Setpoints for the protective equipment or software:

	Setpoint Function	Minimum	Maximum
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

If Discrete Components:

(Enclose Copy of any Proposed Time-Overcurrent Coordination Curves)

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Current Transformer Data (if applicable):

(Enclose Copy of Manufacturer's Excitation and Ratio Correction Curves)

Manufacturer: _____

Type: _____ Accuracy Class: _____ Proposed Ratio Connection: _____

Manufacturer: _____

Type: _____ Accuracy Class: _____ Proposed Ratio Connection: _____

Potential Transformer Data (if applicable):

Manufacturer: _____

Type: _____ Accuracy Class: _____ Proposed Ratio Connection: _____

Manufacturer: _____

Type: _____ Accuracy Class: _____ Proposed Ratio Connection: _____

General Information

Enclose copy of site electrical one-line diagram showing the configuration of all Generating Facility equipment, current and potential circuits, and protection and control schemes. This one-line diagram must be signed and stamped by a licensed Professional Engineer if the Generating Facility is larger than 50 kW.

Is One-Line Diagram Enclosed? Yes No

Enclose copy of any site documentation that indicates the precise physical location of the proposed Generating Facility (e.g., USGS topographic map or other diagram or documentation).

Proposed location of protective interface equipment on property (include address if different from the Interconnection Member's address):

Enclose copy of any site documentation that describes and details the operation of the protection and control schemes. Is Available Documentation Enclosed? Yes No

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

Are Schematic Drawings Enclosed? Yes No

Applicant Signature

I hereby certify that, to the best of my knowledge, all the information provided in this Interconnection Request is true and correct.

For Interconnection Member: _____ Date: _____

**Terms and Conditions For Interconnecting a Certified
Generating Facility No Larger than 50 kw**

1.0 Construction of the Facility

The Interconnection Member (Member) may proceed to construct (including operational testing not to exceed two hours) the generating facility when the Cooperative approves the Interconnection Request and returns it to the Member.

2.0 Interconnection and Operation

The Member may interconnect the Generating Facility with the Cooperative's System and operate in parallel with the Cooperative's System once all of the following have occurred:

- 2.1 Upon completing construction, the Member will cause the Generating Facility to be inspected or otherwise certified by the appropriate local electrical inspector with jurisdiction, and
- 2.2 The Member returns the Certificate of Completion to the Cooperative, and
- 2.3 The Cooperative has either:
 - 2.3.1 Completed its inspection of the Generating Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with applicable codes. All inspections must be conducted by the Cooperative, at its own expense, at a mutually acceptable date and time after receipt of the Certificate of Completion. The Cooperative will provide a written statement that the Generating Facility has passed inspection or notify the Member of what steps it must take to pass inspection as soon as practicable after the inspection takes place; or
 - 2.3.2 Waived, in writing, the right to inspect the Generating Facility.
- 2.4 The Cooperative has the right to disconnect the Generating Facility in the event of improper installation or failure to return the Certificate of Completion.
- 2.5 Revenue quality metering equipment must be installed and tested in accordance with applicable American National Standards Institute (ANSI) standards and all applicable regulatory requirements.

3.0 Safe Operations and Maintenance

The Member shall be fully responsible to operate, maintain, and repair the Generating Facility as required to ensure that it complies at all times with the interconnection standards to which it has been certified.

4.0 Access

The Cooperative shall have access to the External Disconnect Switch and metering equipment of the Generating Facility at all times.

5.0 Disconnection

The Cooperative may temporarily disconnect the Generating Facility upon the following conditions:

- 5.1 For scheduled outages upon reasonable notice.
- 5.2 For unscheduled outages or emergency conditions.
- 5.3 If the Generating Facility does not operate in a manner consistent with these Terms and Conditions.

6.0 Indemnification

The Member shall at all times indemnify, defend, and save the Cooperative harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the Member's (or that of its agents or representatives) action or inactions of its obligations hereunder.

7.0 Insurance

All insurance policies must be maintained with insurers authorized to do business in North Carolina. The Parties agree to the following insurance requirements:

- 7.1 If the Member is a residential Member of the Cooperative, the required coverage shall be a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.
- 7.2 If the Member is a non-residential Member of the Cooperative, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$300,000 per occurrence.
- 7.3 The Member may provide this insurance via a self-insurance program if it has a self-insurance program established in accordance with commercially acceptable risk management practices.

8.0 Limitation of Liability

The Cooperative's liability to the Member for any loss, cost, claim, injury, or expense, including reasonable attorney's fees, relating to or arising from any act or omission hereunder, shall be limited to the amount of direct damage actually incurred. In no event shall the Cooperative be liable to the Member for any indirect, special, incidental, consequential, or punitive damages of any kind. Under no circumstances will the Cooperative be liable or responsible for lost profits, business

interruption damages or costs, or damages associated with Member's inability to sell the electricity from the Generating Facility.

9.0 Termination

The agreement to interconnect and operate in parallel may be terminated under the following conditions:

9.1 By the Member

By providing written notice to the Cooperative and physically and permanently disconnecting the Generating Facility.

9.2 By the Cooperative

If the Generating Facility fails to operate for any consecutive 12-month period or the Member fails to remedy a violation of these Terms and Conditions.

9.3 Permanent Disconnection

In the event this Agreement is terminated, the Cooperative shall have the right to disconnect its facilities or direct the Member to disconnect its Generating Facility.

9.4 Survival Rights

This Agreement shall continue in effect after termination to the extent necessary to allow or require either Party to fulfill rights or obligations that arose under the Agreement.

10.0 Assignment/Transfer of Ownership of the Facility

10.1 This Agreement shall not survive the transfer of ownership of the Generating Facility to a new owner.

10.2 The new owner must complete and submit a new Interconnection Request agreeing to abide by these Terms and Conditions for interconnection and parallel operations within 20 Business Days of the transfer of ownership.

10.3 The Cooperative will ordinarily not study or inspect the Generating Facility unless the new owner's Interconnection Request indicates that a Material Modification has occurred or is proposed



South River Electric Membership Corporation

A Touchstone Energy[®] Cooperative 

Certificate of Completion For Interconnecting a Certified Inverter-Based Generating Facility No Larger than 50 kw

Is the Generating Facility owner-installed? Yes No

Interconnection Member

Name: _____

Contact Person: _____

Address: _____

Location of the Generating Facility (if different from above) _____

City: _____ State: _____ Zip: _____

Telephone (Day): _____ (Evening): _____

Telephone (Cell): _____ Fax: _____

E-Mail Address: _____

Electrician

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone (Day): _____ (Evening): _____

Telephone (Cell) _____ Fax: _____

E-Mail Address: _____

License Number: _____

Date Approval to Install Generating Facility granted by the Cooperative: _____

Interconnection Request ID Number: _____


Inspection:

The Generating Facility has been installed and inspected in compliance with the local building/electrical code of _____

Signed (Local electrical wiring inspector, or attach signed electrical inspection):



South River Electric Membership Corporation

A Touchstone Energy® Cooperative 

Feasibility Study Agreement

THIS AGREEMENT (“Agreement”) is made and entered into this ____ day of _____ 20__ by and between _____, a _____ organized and existing under the laws of the State of _____, (“Interconnection Customer,”) and South River Electric Membership Corporation, an electric cooperative existing under the laws of the State of North Carolina, (“Cooperative”). The Interconnection Customer and the Cooperative each may be referred to as a “Party,” or collectively as the “Parties.”

RECITALS

WHEREAS, the Interconnection Customer is proposing to develop a Generating Facility or generating capacity addition to an existing Generating Facility consistent with the Interconnection Request completed by the Interconnection Customer on _____; and

WHEREAS, the Interconnection Customer desires to interconnect the Generating Facility with the Cooperative’s System; and

WHEREAS, the Interconnection Customer has requested the Cooperative to perform a feasibility study to assess the feasibility of interconnecting the proposed Generating Facility with the Cooperative’s System, and of any Affected Systems;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agree as follows:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated or the meanings specified in the Glossary of Terms (Attachment 1).
- 2.0 The Interconnection Member elects and the Cooperative will cause to be performed an interconnection feasibility study consistent with the Interconnection Procedures and the RUS Final Rule of 7 C.F.R. Part 1730, Subpart C
- 3.0 The scope of the feasibility study shall be subject to the assumptions set forth in Appendix A to this Agreement.
- 4.0 The feasibility study shall be based on the technical information provided by the Interconnection Member in the Interconnection Request, as may be modified as the result of the scoping



System Impact Study Agreement

THIS AGREEMENT ("Agreement") is made and entered into this ____ day of _____ 20__ by and between _____, a _____ organized and existing under the laws of the State of _____, ("Interconnection Member,") and _____ Electric Membership Corporation, a Cooperative existing under the laws of the State of North Carolina, ("Cooperative"). The Interconnection Member and the Cooperative each may be referred to as a "Party," or collectively as the "Parties."

RECITALS

WHEREAS, the Interconnection Member is proposing to develop a Generating Facility or generating capacity addition to an existing Generating Facility consistent with the Interconnection Request completed by the Interconnection Member on _____; and

WHEREAS, the Interconnection Member desires to interconnect the Generating Facility with the Cooperative's System; and

WHEREAS, the Cooperative has completed a feasibility study and provided the results of said study to the Interconnection Member (this recital to be omitted if the Parties have agreed to forego the feasibility study); and

WHEREAS, the Interconnection Member has requested the Cooperative to perform a system impact study to assess the impact of interconnecting the Generating Facility with the Cooperative's System, and of any Affected Systems;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agree as follows:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated or the meanings specified in the Glossary of Terms (Attachment 1).
- 2.0 The Interconnection Member elects and the Cooperative shall cause to be performed a system impact study consistent with the Interconnection Procedures.
- 3.0 The scope of the system impact study shall be subject to the assumptions set forth in Appendix A to this Agreement.
- 4.0 A system impact study will be based upon the results of the feasibility study and the technical information provided by Interconnection Member in the Interconnection Request. The Cooperative reserves the right to request additional technical information from the Interconnection Member as may reasonably become necessary consistent with Prudent Utility Practices during the course of the system impact study. If the Interconnection Member modifies its designated Point of Interconnection, Interconnection Request, or the technical information provided therein is modified, the time to complete the system impact study may be extended.



Facilities Study Agreement

THIS AGREEMENT ("Agreement") is made and entered into this ____ day of _____ 20__ by and between _____, a _____ organized and existing under the laws of the State of _____, ("Interconnection Member,") and _____ Electric Membership Corporation, a Cooperative existing under the laws of the State of North Carolina, ("Cooperative"). The Interconnection Member and the Cooperative each may be referred to as a "Party," or collectively as the "Parties."

RECITALS

WHEREAS, the Interconnection Member is proposing to develop a Generating Facility or generating capacity addition to an existing Generating Facility consistent with the Interconnection Request completed by the Interconnection Member on _____; and

WHEREAS, the Interconnection Member desires to interconnect the Generating Facility with the Cooperative's System; and

WHEREAS, the Cooperative has completed a system impact study and provided the results of said study to the Interconnection Member (this recital to be omitted if the Parties have agreed to forego the feasibility study); and

WHEREAS, the Interconnection Member has requested the Cooperative to perform a facilities study to specify and estimate the cost of the equipment, engineering, procurement and construction work needed to implement the conclusions of the system impact study and/or relevant studies in accordance with Prudent Utility Practices to physically and electrically connect the Generating Facility with the Cooperative's System;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agree as follows:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated or the meanings specified in the Glossary of Terms (Attachment 1).
- 2.0 The Interconnection Member elects and the Cooperative shall cause to be performed a facilities study consistent with the Interconnection Procedures.
- 3.0 The scope of the system impact study shall be subject to the assumptions set forth in Appendix A to this Agreement.
- 4.0 The facilities study shall specify and estimate the cost of the equipment, engineering, procurement and construction work (including overheads) needed to implement the conclusions of the system impact studies. The facilities study shall also identify (1) the electrical switching configuration of the equipment, including, without limitation, transformer,

This Interconnection Agreement (“Agreement”) is made and entered into this ____ day of _____, 20____, by South River Electric Membership Corporation (“SREMC”), and _____ (“DG Owner/Operator”), each hereinafter sometimes referred to individually as “Party” or both referred to collectively as the “Parties”.

This agreement provides for the safe and orderly operation of the electrical facilities interconnecting the (DG Owner/Operator’s) facility at (land location or description of project) and the electrical distribution facility owned by SREMC.

This Agreement does not supersede any requirements of any by-laws, applicable tariffs, rates, rules and regulations in place between the DG Owner/Operator and SREMC.

1. **Intent of Parties:** It is the intent of the DG Owner/Operator to interconnect an electric power generator to SREMC’s electrical distribution system.

2. **Operating authority:** The DG Owner/Operator is responsible for establishing operating procedures and standards within its organization. The operating authority for the DG Owner/Operator shall ensure that the “Operator in Charge” of the generator is competent in the operation of the electrical generation system and is aware of the provisions of any operating agreements and regulations relating to the safe operation of electrical power systems. The DG Owner/Operator shall ensure that the facilities comply with all applicable federal, state, and local laws and regulations, as well as prevailing industry standards, including without limitation those promulgated by the NEC, NESC, and IEEE.

The operating authority for the DG Owner/Operator is (name or title of operating authority, along with address and phone number).

3. **Operator in Charge:** The operator in charge is the person identified by name or job title responsible for the real time operation of all electrical facilities related to the interconnection and owned by their organization.

The “Operator in Charge” for the DG Owner/Operator is (name or title of operator in charge, along with address and phone numbers).

4. **Suspension of Interconnection:** The interconnection shall not compromise SREMC’s protection or operational requirements. The operation of the DG Owner/Operator’s System and the quality of electric energy supplied by (the DG Owner/Operator) shall meet the standards as specified by SREMC. If the operation of the (DG Owner/Operator’s) system or quality of electric energy supplied (in the case of power export) does not meet the standards as specified, then SREMC will notify (the DG Owner/Operator) to take reasonable and expedient corrective action. SREMC shall have the right to disconnect the (DG Owner/Operator’s) System, until compliance is reasonably demonstrated to SREMC’s satisfaction. Notwithstanding, SREMC may in its sole discretion disconnect the (DG Owner/Operator’s) generating plant from the distribution facility without notice if the operating of the generating plant imposes a threat, in SREMC’s sole judgment, to life and property.

This Interconnection Agreement (“Agreement”) is made and entered into this ____ day of _____, 20____, by South River Electric Membership Corporation (“SREMC”), and _____ (“DG Owner/Operator”), each hereinafter sometimes referred to individually as “Party” or both referred to collectively as the “Parties”.

This agreement provides for the safe and orderly operation of the electrical facilities interconnecting the (DG Owner/Operator’s) facility at (land location or description of project) and the electrical distribution facility owned by SREMC.

This Agreement does not supersede any requirements of any by-laws, applicable tariffs, rates, rules and regulations in place between (the DG Owner/Operator) and SREMC.

Intent of Parties: It is the intent of (the DG Owner/Operator) to interconnect an electric power generator to SREMC’s electrical distribution system.

Operating authority: (The DG Owner/Operator) is responsible for establishing operating procedures and standards within its organization. The operating authority for (the DG Owner/Operator) shall ensure that the “Operator in Charge” of the generator is competent in the operation of the electrical generation system and is aware of the provisions of any operating agreements and regulations relating to the safe operation of electrical power systems. The (DG Owner/Operator) shall ensure that the facilities comply with all applicable federal, state, and local laws and regulations, as well as prevailing industry standards, including without limitation those promulgated by the NEC, NESC, and IEEE.

The operating authority for (the DG Owner/Operator) is (name or title of operating authority, along with address and phone number).

Operator in Charge: The operator in charge is the person identified by name or job title responsible for the real time operation of all electrical facilities related to the interconnection and owned by their organization.

The “Operator in Charge” for (the DG Owner/Operator) is (name or title of operator in charge, along with address and phone numbers).

Suspension of Interconnection: The interconnection shall not compromise SREMC’s protection or operational requirements. The operation of the (DG Owner/Operator’s) System and the quality of electric energy supplied by (the DG Owner/Operator) shall meet the standards as specified by SREMC. If the operation of the (DG Owner/Operator’s) system or quality of electric energy supplied (in the case of power export) does not meet the standards as specified, then SREMC will notify (the DG Owner/Operator) to take reasonable and expedient corrective action. SREMC shall have the right to disconnect the (DG Owner/Operator’s) System, until compliance is reasonably demonstrated to SREMC’s satisfaction. Notwithstanding, SREMC may in its sole discretion disconnect the (DG Owner/Operator’s) generating plant from the distribution facility

This Interconnection Agreement (“Agreement”) is made and entered into this ____ day of _____, 20____, by South River Electric Membership Corporation (“SREMC”), and _____ (“DG Owner/Operator”), each hereinafter sometimes referred to individually as “Party” or both referred to collectively as the “Parties”.

This agreement provides for the safe and orderly operation of the electrical facilities interconnecting the (DG Owner/Operator’s) facility at (land location or description of project) and the electrical distribution facility owned by SREMC.

This Agreement does not supersede any requirements of any by-laws, applicable tariffs, rates, rules and regulations in place between (the DG Owner/Operator) and SREMC.

Intent of Parties: It is the intent of (the DG Owner/Operator) to interconnect an electric power generator to SREMC’s electrical distribution system.

Operating authority: (The DG Owner/Operator) is responsible for establishing operating procedures and standards within its organization. The operating authority for (the DG Owner/Operator) shall ensure that the “Operator in Charge” of the generator is competent in the operation of the electrical generation system and is aware of the provisions of any operating agreements and regulations relating to the safe operation of electrical power systems. The (DG Owner/Operator) shall ensure that the facilities comply with all applicable federal, state, and local laws and regulations, as well as prevailing industry standards, including without limitation those promulgated by the NEC, NESC, and IEEE.

The operating authority for (the DG Owner/Operator) is (name or title of operating authority, along with address and phone number).

Operator in Charge: The operator in charge is the person identified by name or job title responsible for the real time operation of all electrical facilities related to the interconnection and owned by their organization.

The “Operator in Charge” for (the DG Owner/Operator) is (name or title of operator in charge, along with address and phone numbers).

Suspension of Interconnection: The interconnection shall not compromise SREMC’s protection or operational requirements. The operation of the (DG Owner/Operator’s) System and the quality of electric energy supplied by (the DG Owner/Operator) shall meet the standards as specified by SREMC. If the operation of the (DG Owner/Operator’s) system or quality of electric energy supplied (in the case of power export) does not meet the standards as specified, then SREMC will notify (the DG Owner/Operator) to take reasonable and expedient corrective action. SREMC shall have the right to disconnect the (DG Owner/Operator’s) System, until compliance is reasonably demonstrated to SREMC’s satisfaction. Notwithstanding, SREMC may in its sole discretion disconnect the (DG Owner/Operator’s) generating plant from the distribution facility