



## South Carolina Generator Interconnection Procedures (SCGIP) Customer Guide

*Dominion Energy South Carolina utilizes a State of South Carolina (SC) mandated and approved process, known as the South Carolina Generator Interconnection Procedures (SCGIP), to evaluate the interconnection of renewable energy facilities and other nonutility-owned generation to the Dominion Energy South Carolina transmission and distribution system. These procedures apply to Generating Facilities that are interconnecting to Utility Systems in South Carolina where the Interconnection Customer is not selling the output of its Generating Facility to an entity other than the Utility to which it is interconnecting. This document is intended as a guide to help the Interconnecting Customer understand the SCGIP. Should there be any discrepancies in this document and the SCGIP, the SCGIP will apply.*

FACILITY TYPE	FACILITY SIZE <sup>1</sup>	APPLICABLE TARIFF PROCEDURE
FACILITIES WITH THE INTENT TO SELL POWER ONLY TO DOMINION ENERGY SOUTH CAROLINA (QUALIFYING FACILITIES)	> 80MW, OR PROJECTS OF ANY SIZE REQUESTING NETWORK INTERCONNECTION SERVICE	LARGE GENERATOR INTERCONNECTION AGREEMENT, PLEASE REFER TO THE DOMINION ENERGY SOUTH CAROLINA OASIS FOR MORE INFORMATION. <a href="http://www.oasis.oati.com/sceg/">http://www.oasis.oati.com/sceg/</a>
	> 2MW – 80MW, or < 2MW and ineligible for Fast Track or 20kW inverter process	SCGIP – STUDY PROCESS
	> 20kW – up to 2MW (See table on next page for eligibility)	SCGIP – FAST TRACK PROCESS (IF SCREENS ARE MET, OTHERWISE STUDY PROCESS)
	0 – 20kW	SCGIP – INVERTER PROCESS (IF SCREENS ARE MET, OTHERWISE STUDY PROCESS) PLEASE CONTACT DOMINION ENERGY SOUTH CAROLINA RENEWABLES PRODUCTS & SERVICES AT 866-660-3705 OR AT <a href="mailto:SCRenewableEnergy@DominionEnergySC.com">SCRenewableEnergy@DominionEnergySC.com</a>
FACILITIES WITH THE INTENT TO SELL TO DOMINION ENERGY SOUTH CAROLINA AND OTHERS	0 – 20MW	SMALL GENERATOR INTERCONNECTION PROCEDURE, PLEASE REFER TO THE DOMINION ENERGY SOUTH CAROLINA OASIS FOR MORE INFORMATION. <a href="http://www.oasis.oati.com/sceg/">http://www.oasis.oati.com/sceg/</a>
FACILITIES WITH THE INTENT TO SELL TO DOMINION ENERGY SOUTH CAROLINA AND OTHERS	> 20MW OR PROJECTS OF ANY SIZE REQUESTING NETWORK INTERCONNECTION SERVICE	LARGE GENERATOR INTERCONNECTION PROCEDURE, PLEASE REFER TO THE DOMINION ENERGY SOUTH CAROLINA OASIS FOR MORE INFORMATION. <a href="http://www.oasis.oati.com/sceg/">http://www.oasis.oati.com/sceg/</a>

<sup>1</sup> Interconnection Requests shall be evaluated based on the Generating Facility's maximum rated capacity.



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The SCGIP contains several distinct processes, depending on a number of factors.

### 1. Pre-Application Process

- An Interconnection Customer (IC) may submit a formal written Pre-Application Report request form along with a non-refundable fee of \$500 for a pre-application report on a proposed project at a specific site.
- Transmission Provider (TP) shall provide pre-application report within 20 Business Days (BD) of receipt of the completed request form and payment of the \$500 fee. The report need only include existing data.
- The report is non-binding, does not confer any rights, and the IC must still successfully apply to be interconnected to the TP’s system and to obtain a Queue Number.
- Any one developer shall have no more than ten requests for Pre-Application reports in the queue at one time.

### 2. Fast Track Process

For Certified Generating Facilities as identified on the Fast Track Eligibility table.

Technical screens, instead of interconnection studies, are used to quickly identify reliability and safety issues.

<u>Fast Track Eligibility for Inverter-Based Systems<sup>1</sup></u>		
<u>Line Voltage</u>	<u>Fast Track Eligibility Regardless of Location</u>	<u>Fast Track Eligibility on a Mainline<sup>2</sup> and ≤ 2.5 Electrical Circuit Miles from Substation<sup>3</sup></u>
< 5kV	≤ 100kW	≤ 500kW
≥ 5kV and < 25kV	≤ 1MW	≤ 2MW

<sup>1</sup> Must be a UL certified inverter.

<sup>2</sup> A main line is a three-phase backbone of a circuit; will typically constitute lines with wire sizes of 4/0 American wire gauge, 336.4 kcmil, 397.5 kcmil, 477 kcmil and 795 kcmil.

<sup>3</sup> An Interconnection Customer can determine this information about it’s proposed interconnection location in advance by requesting a pre-application report pursuant to section 1.2.



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### 3. Informational Interconnection Study Process for Transmission System Interconnections

- Optional study to evaluate different factors such as sizes, sites, or voltages before entering the Definitive Interconnection Study Process
- Submit Informational Interconnection Study Request using Attachment 3 to Appendix DESC CS
- Requires \$10,000 deposit that is reconcilable to actual cost

### 4. Definitive Interconnection Study Process (Clusters)

Default method consisting of a scoping meeting, a system impact study done in two or three phases, and a facilities study. This process has built-in readiness requirements and withdrawal penalties.

**System Impact Study (Phase 1)** - This is a detailed assessment of the effect the interconnection would have on the TP's electric system and Affected Systems that consists of a power flow and voltage analysis.

**System Impact Study (Phase 2)** - This is a more detailed assessment of the effect the interconnection would have on the TP's electric system and Affected Systems that consists of an updated power flow/voltage analysis (if necessary), stability analysis, and short circuit analysis. Withdrawing now has associated penalties.

**System Impact Study (Phase 3 Restudy)** - This is dependent upon whether individual projects leave the cluster and if their departure would impact the results of Phase 2.

**Facilities Study** – This determines what modifications to the TP's electric system are needed, includes detailed costs and scheduled completion dates for these modifications.

Once IC agrees to fund any needed upgrades, the Parties execute an Interconnection Agreement that, among other things, formalizes responsibility for construction and payment for Interconnection Facilities and Upgrades.

### 5. 20 kW Inverter Process

- For a Certified inverter-based Generating Facility no larger than 20kW
- Interconnection Agreement does not apply to requests to interconnect submitted under the 20kW Inverter Process.

The TP's evaluation of a project with multiple Points of Interconnection should be performed, using Good Utility Practice (TP has the option to either treat such projects separately for queuing and interconnection study purposes, or as a single Point of Interconnection), based on the project's unique engineering and geographic needs.