

GENERAL NOTES FOR ALL SYSTEMS

Regardless of size, system may be required to pass studies including but not limited to system feasibility and system impact. The cost of these studies and any subsequent utility system upgrades will be the responsibility of the solar PV system owner.

The system owner will be responsible for all work and associated equipment purchases. Typical expenses will include a second meter (or an upgraded meter), permit costs and any work related to utility system interconnection. **Interconnection Agreements should be executed before construction begins.**

FINAL CONSIDERATIONS WHEN INVESTING IN A ROOFTOP SYSTEM

Incentives currently drive much of the benefit within the North Carolina solar landscape. For example, a federal tax credit of 26% will be offered in 2020, but because tax credits may change year-to-year, it is important to verify whether credits are available for your project. Since tax credits form a significant portion of the payback calculation, consultation with your tax advisor prior to starting your project is highly recommended.



When calculating your estimated annual savings, you should contact your local utility to obtain the applicable rate rider for your project. You can also obtain an independent estimate of the output that may be expected from your solar system based on its size and other characteristics at <https://pvwatts.nrel.gov/>.



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Consumer Information from
ElectriCities of North Carolina
and your Public Power Provider

SOLAR CONNECTIVITY



ELECTRICITIES

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▶ THE SOLAR INTERCONNECTION PROCESS

SOLAR OVERVIEW

North Carolina is a leader when it comes to new solar development. With projects ranging from 1kW residential rooftop systems to 20MW solar farms, the detail surrounding these projects can vary widely. As such, ElectriCities and your local Public Power Provider work together to provide a smooth process for completing your solar photovoltaic (PV) project.

We encourage and promote solar PV projects that connect safely to our grid while also ensuring a fair cost distribution among all rate payers.

GENERAL INFORMATION BY PROJECT SIZE

The appropriate steps for any solar PV project will vary depending upon size and projected system impact. The following guidelines are offered to help with your project. **However, it is suggested that you ALWAYS contact your local utility FIRST.**

PROJECT BY SIZE

≤20kW

Inverter-based projects less than or equal to 20kW may follow these steps:

- Review your utility's Interconnection Standards for all generators
- Complete Interconnection Application for 20kW Certified Inverter process
- Upon acceptance by your local utility, Interconnection Agreement is signed by both parties
- Make sure all local permits are properly obtained for related work
- Power Purchase Agreement form will be signed indicating applicable rate rider and customer's agreed payment of facility equipment
- Work with installer to ensure that your generator is properly registered and all appropriate forms have been completed
- Once project is complete, Certificate of Completion and Acceptance is issued by local utility

20kW-2MW

Some PV generators can impact the local utility grid. Therefore, closer review is often needed to determine system impact. Projects between 20kW and 2MW (or non inverter-based) will follow these steps:

- Review your utility's Interconnection Standards for all generators
- Submit Interconnection Request
- If local utility accepts project, Interconnection Agreement is signed by both parties
- The local utility determines that further study is needed, appropriate deposits are paid by owner and study process begins
- Obtain all local permits for project work
- Work with the installer to ensure that the generator is properly registered. If renewable energy credit sale is intended, owners may request a quote from ElectriCities
- Both parties sign Power Purchase Agreement
- Upon completion, utility issues Certificate of Completion and Acceptance

+2MW

Projects larger than 2MW will follow these steps:

- Projects of this size **MUST** follow the more detailed Study Process. Contact with a representative of the local utility is advised early in the planning stages.

