

Renewable Energy Site Assessment Request

What is a Renewable Energy assessment?

A Renewable Energy (RE) assessment includes an analysis detailing initial payback and viability for a specific technology. It will include financing options, available incentives, loan guarantees or grant opportunities as well as information specific to programs offered by your utility provider.

Potential renewable energy systems for organizations include solar photovoltaic, solar hot water, biomass, biogas to energy and wind.

There are three levels of complexity for RE assessments. We begin with a **Preliminary RE Assessment**, which does not require a site visit; and if that is viable, we offer a more detailed cost / benefit approach or a **Renewable Energy Cost / Benefit Analysis** for an in-depth review of a particular technology or system. This would include an on-site component, grid inter-connectivity aspects as well as financing options and policy considerations. Lastly, our team can provide an **RE Feasibility Study** for investment grade projects often required by lending institutions.

Who will perform the assessment?

An experienced energy specialist from the NC Clean Energy Technology Center will conduct your assessment. Engineering students may also accompany the specialist to provide support and create an opportunity for hands-on learning. Our team is happy to provide samples of the available assessments upon request.

Pricing

Some assessments may qualify for subsidized programs we offer through various federal and state partners. Please contact our team for a pricing estimate specific to your organization and objectives.

Steps

RE assessments will be scheduled upon the completion of this request, receipt of the appropriate fee, and the Pre-Assessment Form. Applicants are required to complete a Pre-Assessment Form at least 2 weeks prior to an on-site visit. A written report will be completed within six weeks of the site visit or virtual assessment.

For more information on energy assessments visit: <https://nccleantech.ncsu.edu/>

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**Renewable Energy
Pre-Assessment Form**

Contact Information

Customer Name _____ Date _____
Physical Address _____

County _____ Zip Code _____ State _____
Contact _____ Position _____
Office Phone _____ Mobile Phone _____
Email Address _____ NAICS # _____
Desired Start Date _____

Site Data

Facility Type (farming, retail, manufacturing, office, etc.) _____
If farm, number of livestock _____
Acres of land _____ Building Square Footage (ft²) _____
Age of Building (Years) _____ Purpose of Building _____
Operating Schedule (i.e., 8-5 M-F or 24/7) _____
Roof Condition and Age _____

Product Description

Annual Sales _____ Number of Employees _____
Annual Production _____

Utility Data

Please attach electricity, water, natural gas, and other fuel bills for a 12-month period.

Are you concerned about the impact of current or future energy costs on your business? _____

Are you concerned about power reliability? Is there a substantial financial impact to your business if the power goes out for 1 hour? For 5 minutes? History of black-outs? _____

Do you have access to on-site or nearby low cost fuel resources (i.e. landfill gas, farm manure, food processing waste, etc.)? Please provide as much detail as possible _____

Do you have a need for thermal energy (steam, hot water) or electricity near your site? _____

Please check all that apply:

A Building Automation System or Energy Management Control System is in place and used to track utility data regularly.

The building is sub-metered.

The building has automated 15-minute interval or SMART meters.

Please select what is currently installed:

- | | | |
|----------------------------|---------------------|-------------------------|
| Energy-efficient lighting | Micro-hydro | Low-flow faucets |
| Lighting controls | Geothermal | Rainwater harvesting |
| Insulation | Green/living roof | Porous pavement |
| HVAC system upgrades | External shading | Sustainable procurement |
| Solar hot water | Composting | Gray-water systems |
| Solar PV panels (electric) | Anaerobic digestion | Sustainable procurement |
| Wind turbines | Low-flush toilets | South-facing Location |

Please specify which renewable technologies you would like considered _____

Please specify the level of RE assessment you are requesting:

Preliminary RE Assessment

RE Cost / Benefit Analysis

RE Feasibility Study