

CLEAN POWER, ENERGY EFFICIENCY &

RENEWABLE ENERGY



NC CLEAN ENERGY
TECHNOLOGY CENTER

NC STATE UNIVERSITY

General Overview

The N.C. Clean Energy Technology Center (NCCETC) helps industrial, commercial and institutional energy users to reach their energy-related goals. Whether your objectives are to achieve cost reductions, increase utilization of renewable energy and/or improve energy systems resiliency, the Center provides direct support and access to resources.

Technical Services

The Clean Power Program at the Center is staffed by experienced engineers, scientists and specialists. Our services include site-specific renewable energy assessments, economic feasibility studies and project development support. We also can assist by helping clients to improve energy efficiency of building systems and/or industrial processes or by deploying distributed energy resources (DERs) like battery storage or microgrids.

Energy Assessments

NCCETC offers customized technical services in the following areas:

Renewable Energy and Energy Storage

Site assessments, including the use of conceptual design tools and life cycle cost analysis, can help identify practical means for incorporating renewable energy such as solar photovoltaics, thermal or bioenergy on your property or as part of your facility-wide energy system.

Energy Efficiency

One of the most cost-effective means of reducing operational costs lie in energy efficiency. We help you identify and prioritize opportunities for optimal operational efficiency in systems ranging from compressed air to HVAC to energy management.

Resources

The Center is a public service center in the College of Engineering at North Carolina State University. Some services, such as preliminary screenings, are available at no cost, while advanced feasibility analyses, energy audits or targeted assessments are fee supported. Currently NCCETC provides no-cost technical assistance to end users interested in combined heat and power through the U.S. DOE Southeast Combined Heat and Power Technical Assistance Partnership (CHP TAP) based at NCCETC.



NCCETC assists Western Carolina University with a feasibility analysis to modernize their central heating plant.

Combined Heat and Power

Combined Heat and Power (CHP) efficiently generates power and thermal energy for use onsite in processes or for heating and cooling. NCCETC provides project development support for CHP with microgrids, district energy and/or energy storage.

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