Center for Renewable Energy & Sustainability

at Johnson C. Smith University

SCAN ME





OUR MISSION

The Center for Renewable Energy and Sustainability (CRES) reflects JCSU's commitment to the global cause of sustainable development. Our actions are locally centered, as demonstrated by our work to help establish a local food system here in the Beatties Ford Rd. Corridor.

SUSTAINABILITY MINOR

The Sustainability minor is a flexible program open to all majors. Students will be exposed to various concepts of sustainability and modern sustainable practices that can be used to address current issues affecting society, organizations, and the world.

WHAT IS SUSTAINABILITY?

Sustainability is a term that was born from the Brundtland Commission report describing sustainable development as "*development which meets the needs of current generations without compromising the ability of future generations to meet their own needs*".

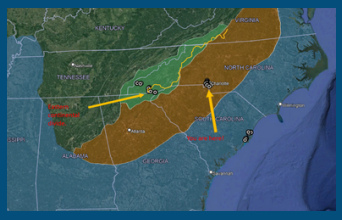
The concept supports economic and social development while emphasizing the importance of protecting natural resources and the environment.

RENEWABLE ENERGY

JCSU is now home to several renewable energy sources, including a wind turbine and two solar panel arrays. Most recently, in 2021, RENU installed a 17.9 kilo-watt of direct current (kWdc) system to power the Sustainability Village greenhouse. 18.5 tons of CO2 equivalent will be offset by the solar panels alone. The 2.4 kilo-watt wind turbine system is connected to our educational-scale aquaponic greenhouse.

FARM-TO-FORK

Our Sustainability Village aims to implement a local and sustainable food system by improving access to nutrient-dense and pesticide-free produce. Our campus farm-to-fork program is geared toward students and supports staff. This initiative is predicted to support campus-wide retention and recruitment efforts while adding to the campus climate and culture. Plans for the community include an on-campus market open six days per week.



WATER QUALITY

The Center for Renewable Energy & Sustainability (CRES) provides research and lab experience for students. Student researchers at CRES recently collected water quality (WQ) data from surface water within the Mountain, Piedmont, and Coastal Plain Provinces. Data shows that water quality is negatively impacted in areas with limited riparian buffers and high levels of ecological disturbances. This is part of an ongoing project available for students.

MARK A. DUGO, PH.D.
Director, Center for Renewable Energy & Sustainability

DR. BRENDAN KERN
Associate Professor of Biology & Teacher Advisor

Inquiries:
mdugo@jcsu.edu
bkern@jcsu.edu

VISIT US AT WWW.JCSUCRES.COM