



SC NEXUS

Establishing South Carolina as a Global Leader in Advanced Resilient Energy.

SC NEXUS IS

- A broad consortium of public and private entities operating across the state.
- Working to drive innovation in technologies that enable an end-to-end resilient, sustainable energy ecosystem.
- One of only 31 U.S. Department of Commerce's Economic Development Administration's (EDA) designated Regional Technology and Innovation Hubs (Tech Hubs) and one of only three in the Southeast.



EDA required Tech Hubs to select a "tightly interconnected set of metropolitan statistical areas (MSAs) with the assets, resources, and capabilities" to support the Tech Hub's vision. SC Nexus' defined geography consists of the MSAs of Greenville-Anderson, Columbia, Spartanburg, Augusta-Richmond County, and surrounding counties (e.g., Aiken, Cherokee, Orangeburg and Sumter). This covers 60%+ of SC's distressed counties.

HOW THE EDA TECH HUBS DESIGNATION BENEFITS SC NEXUS' EFFORTS

- The Tech Hubs designation is forever.
- The designation allows SC Nexus to compete for grants to fund technology innovations projects in the state.
- The designation will help provide access to more international business investment.
- The designation will help accelerate high quality job growth.

Tech Hubs are designed to quickly grow the nation's ability to



DESIGN



MANUFACTURE



EXPORT

critical technologies of the future: advanced energy, advanced materials, semiconductors, AI and automation.

SC NEXUS PHASE 2 FUNDING APPLICATION STATUS

Submitted **FEB. 28, 2024.**

EDA virtual visit to review application **APRIL 18, 2024.**

SUMMER 2024, funding recipients announced. EDA will award amounts between **\$40M-75M** to at least **FIVE** of the 31 Tech Hubs.

FOUR other Tech Hubs are pursuing funding for Advanced Energy: FL-Resilient Infrastructure, ID-Nuclear Reactors, LA-Wind Turbines and NY-Batteries.

The new energy economy is expected to create **14,000+** jobs in South Carolina by 2030 based on its current trajectory.



AS A TECH HUB, WITH SECURED FUNDING, SC NEXUS WILL:

- **Create** inclusive pathways for all South Carolinians to access those new high-quality jobs.
- **Help** to close infrastructure gaps in rural and distressed communities.
- **Ensure** continued access to a reliable supply of low-cost electricity.
- **Play** a key role in strengthening the nation's economic competitiveness and national security.



TRANSMISSION & DISTRIBUTION PROJECTS INCLUDED IN PHASE 2 APPLICATION



Carolina Institute for Battery Innovation (CIBI)
Led by University of South Carolina, this project will establish a stationary battery manufacturing pilot line in Columbia.



Grid Enabled Cyber Operations Range (GECO)
Led by Savannah River National Lab, this project will establish a cyber testing range for grid connected equipment, with both grid operator training and equipment testing benefits.



H2 Resilience Demonstrator and Testbed
Led by Rolls Royce, this project will establish a demonstration hydrogen storage system in Graniteville, designed to provide resilience during multi-day peak periods or climate-related events.



Education and Workforce Center
Led by SC Technical College System, this project will enhance awareness of South Carolina's energy-focused industries and job opportunities, identify, and develop the skills necessary for success in these roles, and provide critical support services to ensure advanced energy workers have access to these opportunities.



Economic Development through Grid Emulation (EDGE)
Led by Clemson University, this project will upgrade the North Charleston eGRID facility power and voltage testing capabilities for grid-connected equipment.



Entrepreneurship and Innovation Exchange (eiX)
Led by South Carolina Research Authority, this project will provide comprehensive business, technical and hands-on training, leverage and connect assets of the existing entrepreneurship and innovation ecosystem across the SC Nexus hub, and deploy additional capital and incentives to support new and growing startups.