



CORE SC



CENTER OF RESILIENCE EXCELLENCE



**SOUTH CAROLINA
ASSOCIATION OF COUNTIES**

KEVIN LIMEHOUSE JULY 31, 2021

WHAT IS CORE SC?

- Created with guidance from **NASA** with the end goal of creating a **permanent NASA Center** and presence in South Carolina
- A consortium created by **Charleston County**, the **College of Charleston**, and the **South Carolina Aquarium**
- **Dominion Energy** and the **South Carolina Research Authority (SCRA)** recently joined CORE SC's Board
- Housed at the **College of Charleston**



**Dominion
Energy**®



SCRA
South Carolina Research Authority








WHAT IS CORE SC?

- Purpose: Research, develop, create, and implement scalable and replicable solutions to resilience challenges facing South Carolina
- CORE SC is the nexus between local, state, and federal agencies, industry, education institutions, non-profits, public and private organizations that lead to actionable outcomes to improve community and societal resilience for South Carolina
- CORE SC believes awareness, inclusion, and equity are necessary for resilience



WE CAN FOCUS AREAS

-  **WATER:** Maintain healthy drinking water | Mitigate coastal erosion and sea-level rise | filter and control storm water run-off | respond to climate change
-  **ENERGY:** Test, develop, and deploy renewable energy sources
-  **CONNECTIVITY:** Ensure societal access to internet and other communication methods
-  **Agriculture:** Develop solutions to challenges of food insecurity | incorporate innovation to ensure resilience techniques for sustainable agriculture
-  **Natural Hazards:** Mitigate and respond to effects of flooding, hurricanes, tornadoes, and other natural disasters

SOLUTIONS AND PROJECTS

- NASA Requests:
 - **Tech Transfer University (T2U)**
 - CubeSat
 - NASA/Disney/CORE SC Agriculture programs
 - Renewable/EV charging replications
- SC Energy Office – **Solar bus shelters** and electric vehicles
- Partnership with The Ray:
 - **Environmental Systems Research Institute (ESRI) – Solar analysis tool**
 - Deployable Technology
- SC Aquarium – **Supercomputer flood modeling**



CONTACT INFORMATION

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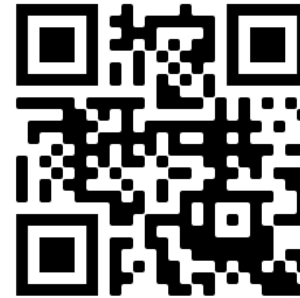
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CORE SC



Charleston County



Better Together!