

2021 Annual Report

E4 CAROLINAS BOARD OF DIRECTORS

E4 CAROLINAS IDENTIFIES ENERGY OPPORTUNITIES AND CONNECTS MEMBERS WITH OTHERS TO PURSUE THOSE OPPORTUNITIES



Jeff Merrifield Chair, Board of Directors

2021 was a year of extraordinary achievements for E4 Carolinas. We delivered more meetings, seminars, conferences, and programs to more members than ever before and our virtual delivery was widely accessed regionally, nationally, and internationally. Our membership continued to show healthy growth despite the challenges of COVID-19 and our operating budget topped \$1 million for the first time. Most significantly, we received nearly \$3 million in new multi-year program grants which will allow E4 to advance the region's energy economy and at the same time further reinforce our financial stability and reputation.

CLASS OF 2022



Vice Chair Wayne Wilkins CEO EnergyUnited



Juliann Edwards Senior VP Energy Solutions



<u>Brian Maragno</u> VP, Large Generator Product Line <u>Siemens Energy</u>



Rusty Harris VP & COO Gas Dominion Energy South Carolina



Bruce McKay Sr. Dir. Ext. Affairs BHE Gas Transmission & Storage



<u>Lee Mazzocchi</u> President <u>Pike Engineering</u>



Rick Tankersley Vice Chancellor for Res. & Grad. Education <u>UNC Charlotte</u>

E4 CAROLINAS BOARD OF DIRECTORS



CLASS OF 2023



Secretary & Treasurer Scott Carlton President Tokai Carbon USA



Jon Ball Executive VP Nuclear Plants <u>GE Hitachi</u>



Diane Denton VP State Energy Policy Duke Energy



<u>Carl Fisher</u> VP Customer Accounts & Gov't. Affairs <u>Framatome</u>



Roy Jones CEO ElectriCities of North Carolina



Jim Little Principal Nuclear Energy Programs



<u>Gary Rackliffe</u> VP, Market Development and Innovation <u>Hitachi ABB Power Grids</u>



<u>Bryan Stone</u> President & COO <u>Lockhart Power</u>

E4 CAROLINAS BOARD OF DIRECTORS



CLASS OF 2024



Chair Jeff Merrifield Partner <u>Pillsbury, Winthrop Shaw</u> <u>Pittman</u>



<u>Weston Adams</u> Partner <u>Nelson Mullins</u>



<u>George Baldwin</u> Principal <u>Baldwin Consulting Group</u>



Jeff Barghout Chief Executive Officer <u>Robocist</u>



Lori Collins Principal Collins Climate Consulting



Heather Feldman Director, Innovation Electric Power Research Institute



<u>Billal Hammoud</u> Vice President and General Manager <u>Honeywell Smart Energy</u>



Sean Sexstone Sr. Vice President <u>AECON/Wachs</u>

E4 CAROLINAS LEADERSHIP AND STAFF





David A. Doctor Retiring President & CEO

David has led E4 Carolinas since 2014. Under his leadership E4 Carolinas has grown from two staff members and a \$500,000 budget to 11 staff and a \$2 million+ budget in 2022, producing more seminars, conferences, and programs and engaging more members than ever. David retires in 2022.



John Morrison Incoming President & CEO

On Tuesday, January 18th, John became E4 Carolinas' President and Chief Executive Officer. He is a longtime Carolinian and a recognized energy industry leader. John has served in leadership roles with Carolina Power and Light, Advanced Energy, The North Carolina Department of Commerce, Strata Solar and Ecoplexus Solar.



<u>Kelly Perkins</u> Finance/Program Director



Jess Buchanan Innovation Program Manager



<u>Courtney Taylor</u> Digital Communications Manager



Jennifer Hall South Carolina Program Manager



Bonnie Loomis South Carolina Managing Director



<u>Dr. Lukas Brun</u> Managing Director, Research and Economic Development

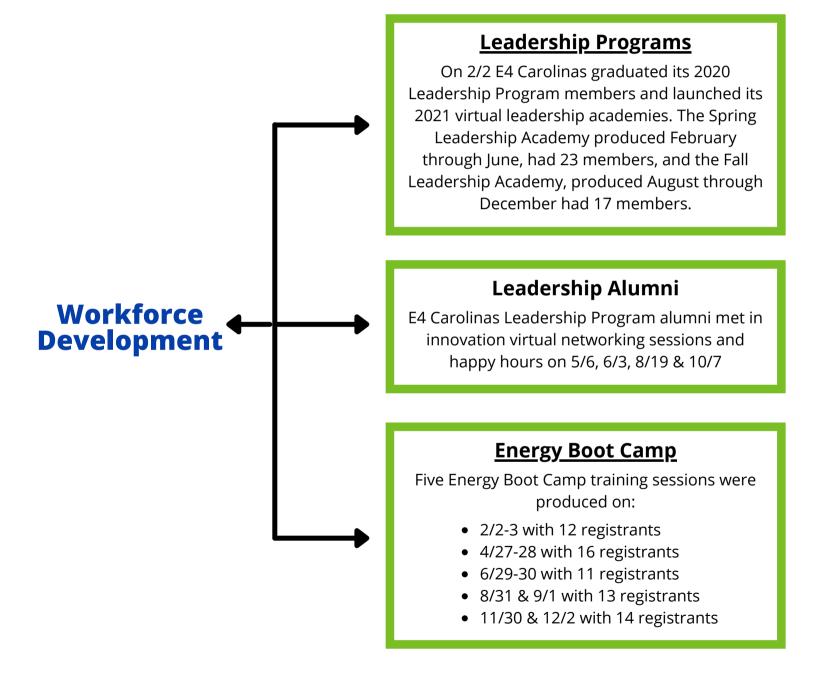


Todd Royal Senior Project Analyst

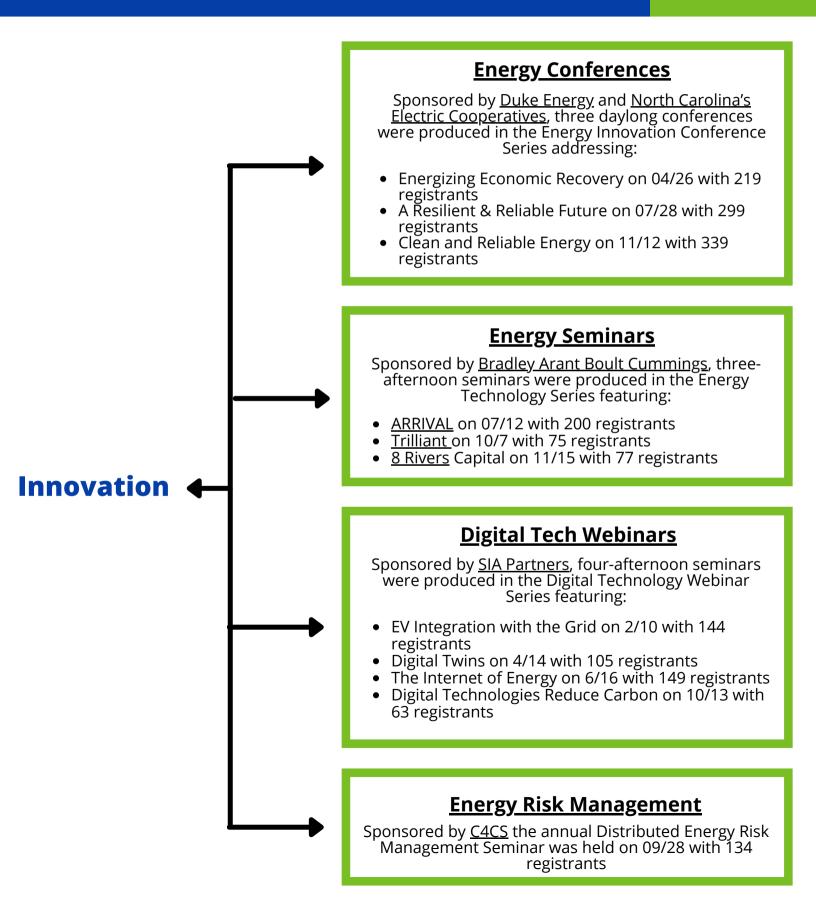


Allyson Barbier Project Analyst

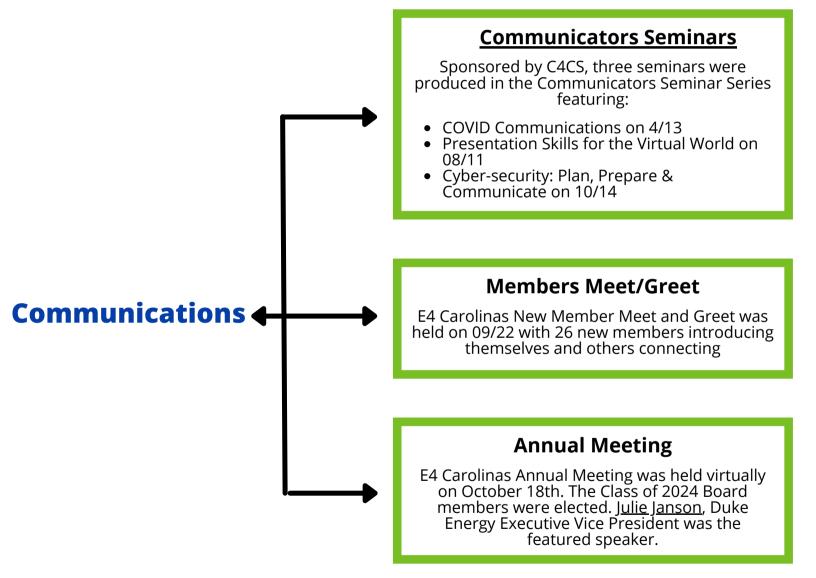




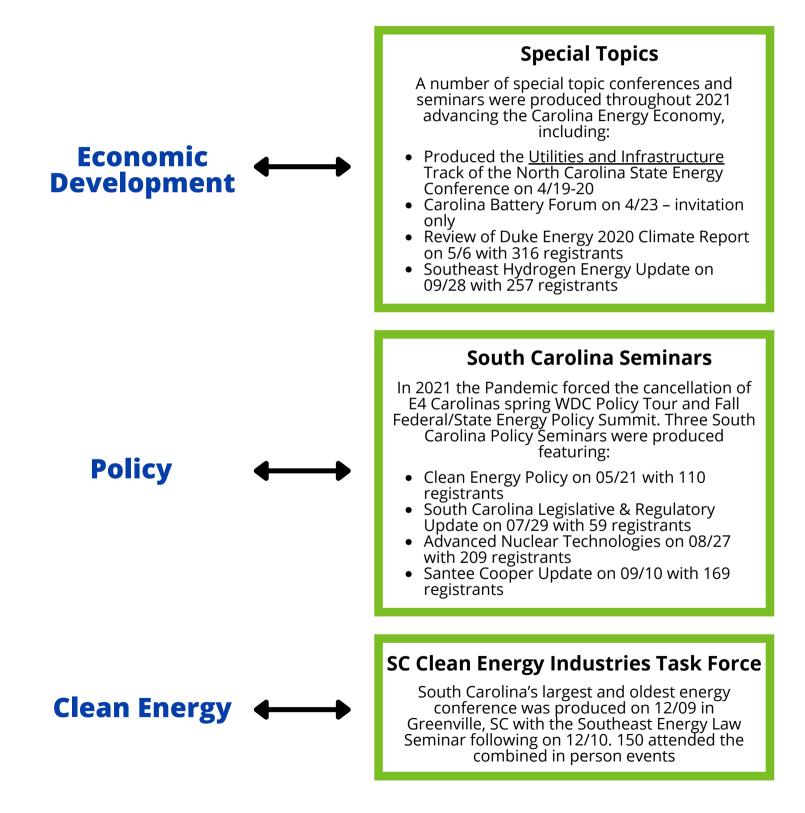












GRANT FUNDED PROGRAMS





Alternative Fuels and Vehicles Resilience Research and Planning



Advanced Nuclear Technologies Economic Development Research and Planning This project is funded by the U.S. Department of Energy's <u>National Energy Technology Laboratory</u> from January 2020 through December 2022. It will enhance Carolina's alternative fuel vehicles fleet and fueling facility disaster preparedness, recovery planning, and resiliency by increasing alternate fuel diversity, and specifically the use of alternative fuels for emergency response fleets that provide critical post-infrastructure disruption transportation, clean-up, utility restoration, and recovery. Learn More

This project is funded by the U.S. Department of Commerce's <u>Economic Development</u> <u>Administration</u> from May 2021 through May 2024. It will create an advanced nuclear technologies economic development plan to diversify the region's economy through a publicprivate partnership creating high-quality jobs and resiliency; attracting investment, and responding to the economic disruption experienced by the cancellation of significant regional nuclear construction projects. <u>Learn more</u>



Green Hydrogen Study This project is funded by the <u>Southeast</u> <u>Hydrogen Energy Alliance</u> and the U.S. Department of Energy's <u>Savannah River National</u> <u>Laboratory</u> from June 2021 through March 2022. The project will research, identify and describe the green (non-carbon) hydrogen energy value chain; companies within the Southeast Region that are currently part of the green hydrogen energy value chain; opportunities for green hydrogen to serve existing and new markets; and educate and promote green hydrogen. <u>Learn more</u>

GRANT FUNDED PROGRAMS





Energy Hardware Cluster Development and Venture Acceleration

This Project is funded by the U.S. Department of Energy's <u>Office of Technology Transitions</u> from October 2021 through September 2024. This project will create a regional energy hardware cluster innovation and accelerator ecosystem to enhance commercialization opportunities for U.S. energy startups and new ventures originating within an established company. E4 Carolinas will build a regional energy hardware community to support the Joules Accelerator. Learn more



Keeping You

Energized

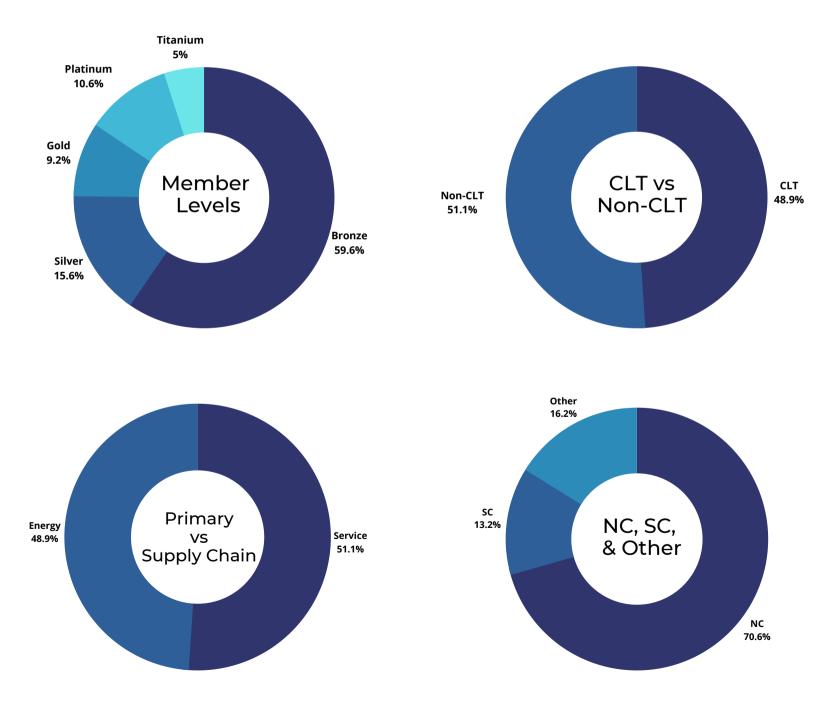
Carolina Historically Black Colleges and Universities Energy Leadership Pathway Program This program is funded by the <u>Duke Energy</u> <u>Foundation</u> from January 2022 through December 2023. The Energy Leadership Pathway is conceived as a potentially ground-breaking and transformative means to promote diversity, racial equity, and inclusion in the region's energy industry. It is believed the Pathway will, if successfully developed, serve as a model for the energy industry in other regions and generally for other industries.

This project is funded by <u>Duke Energy</u> from November 2021 through March 2022. The project will produce a resource platform containing short "stories" describing how our power system and utility business models have evolved and operated today. Explanations will be applicable to the United States power and utility operation, but relevant to Duke Energy's entire operating territory

2021 MEMBERS

E4 CAROLINAS IDENTIFIES ENERGY OPPORTUNITIES AND CONNECTS MEMBERS WITH OTHERS TO PURSUE THOSE OPPORTUNITIES

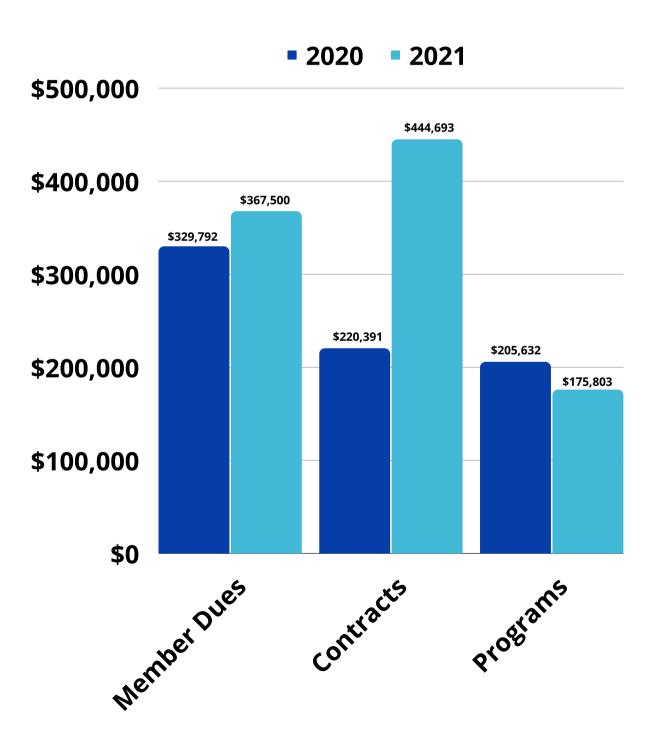
Membership grew in 2021 to 142 companies and organizations. More outside the Charlotte metro area became members, as E4 Carolinas developed significant virtual conferences, seminars, and programs. Membership outside the Carolinas increased, as E4 Carolinas engaged in Southeast regional research and economic development projects.



2021 FINANCES



Revenue grew more than \$200,000 with member dues at a record level and grantfunded contracts surging to \$445,000. Program revenue was less than in previous years with most programs being produced virtually and at no cost.



2021 FINANCES E4 CAROLINAS CONTINUES TO BE FINANCIALLY STABLE



Assets grew to a healthy \$430,000 of cash.



\$500,000

