

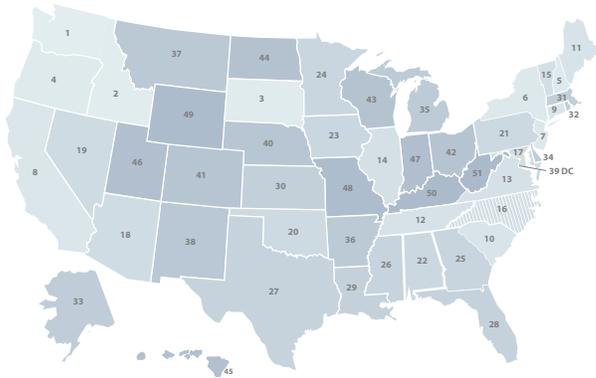
HOW DOES NORTH CAROLINA STACK UP ON CLEAN ENERGY?



DATA AS OF 2021

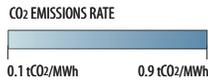


LOWEST CO₂ EMISSIONS RATE

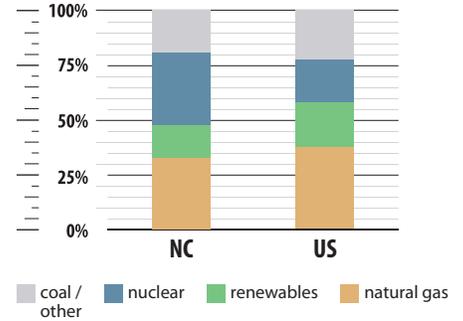


#16

0.32 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#10

99,739 (2021)



Growth/recovery since 2020 totaled 1,689 jobs (1.7%).



CLEAN ENERGY RANKINGS

#27

ENERGY EFFICIENCY SCORE = 17



#29

33% GENERATION FROM NATURAL GAS



#24

15% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#11

852 MW (2021)

NEW BUILD



#8

9,424 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR NORTH CAROLINA



\$59.3 MILLION Total Department of Energy funding in FY21

\$21 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21

\$28.8 MILLION Office of Science grants in FY21

\$69 MILLION Advanced Research Projects Agency-Energy grants since FY2009

62 AWARDS DOE Small Business Innovation Research (SBIR) since 2012

IMPACTS OF FEDERAL R&D IN ENERGY SECTOR (TOTAL, 2018)

#24 **490 JOBS SUPPORTED**

#23 **\$55 MILLION CONTRIBUTED TO GDP**

BUSINESS SPOTLIGHT

SUSTEON TECHNOLOGIES (DURHAM, NC) | <https://Susteon.com>

The logo for Susteon, with 'Susteon' in orange and 'TECHNOLOGIES' in purple.

With support from the Department of Energy's Small Business Innovation Research (SBIR) program, Susteon has developed decarbonization solutions for a variety of energy technologies, including CO₂ removal, capture, and utilization, and carbon-free hydrogen production. Susteon has spun out a startup company, Sustaera, to develop and deploy a novel direct air capture technology for CO₂ removal.