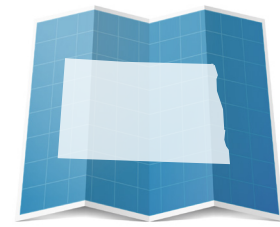


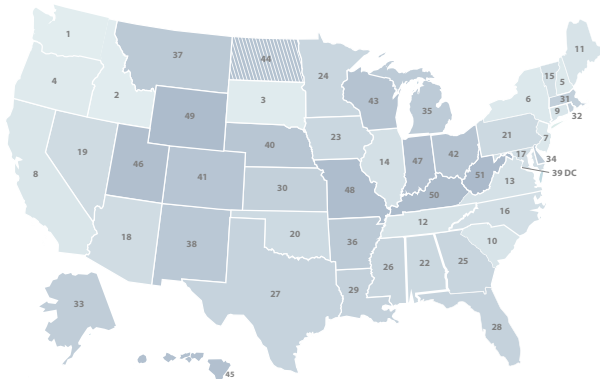
HOW DOES NORTH DAKOTA STACK UP ON CLEAN ENERGY?



DATA AS OF 2021



LOWEST CO₂ EMISSIONS RATE



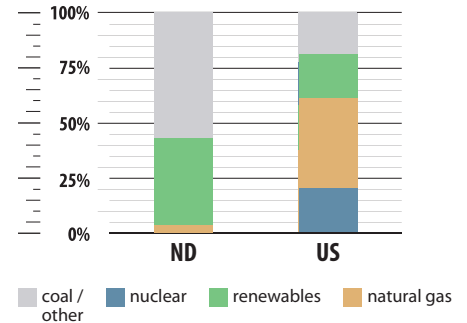
#44

0.63 tCO₂/MWh

CO₂ EMISSIONS RATE
0.1 tCO₂/MWh 0.9 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#38



20,206
(2021)

Growth/recovery since 2020 totaled
2,716 jobs (15.5%).



CLEAN ENERGY RANKINGS

#48

ENERGY EFFICIENCY
SCORE = 6



#47

4% GENERATION FROM
NATURAL GAS



#11

39% GENERATION FROM
RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#26

NEW BUILD



299 MW
(2021)

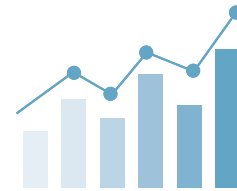
#20

CUMULATIVE



4,988 MW

ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR NORTH DAKOTA



\$27.7 MILLION Total Department of Energy funding in FY21

\$4.9 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21

\$630 THOUSAND Office of Science grants in FY21

\$971 THOUSAND Advanced Research Projects Agency-Energy grants since FY2009

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

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

#34 **190 JOBS SUPPORTED**

#35 **\$18 MILLION CONTRIBUTED TO GDP**

BUSINESS SPOTLIGHT

MICROBEAM TECHNOLOGIES INC (GRAND FORKS, ND) | <http://Microbeam.com>



Microbeam Technologies Incorporated is a leader in advanced fuel quality analysis and determining the impacts of fuel on power-system performance. The firm serves clients in the power sector and other industries by providing advanced analysis and testing services to diagnose challenges and identify solutions that improve power plant operations. The company has received Department of Energy funding to help support its research.