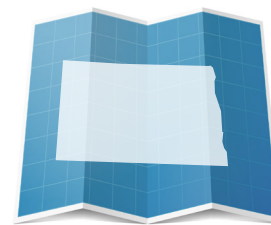


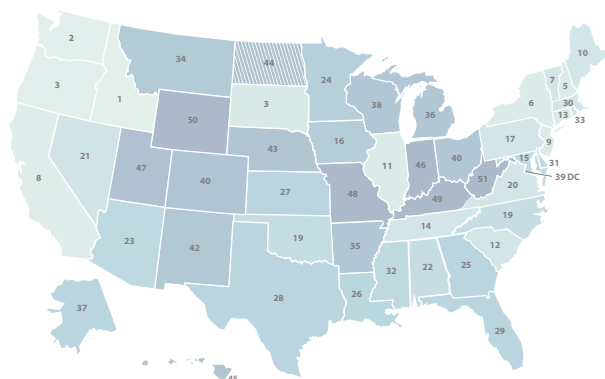
HOW DOES NORTH DAKOTA STACK UP ON CLEAN ENERGY?



DATA AS OF 2020



LOWEST CO₂ EMISSIONS RATE



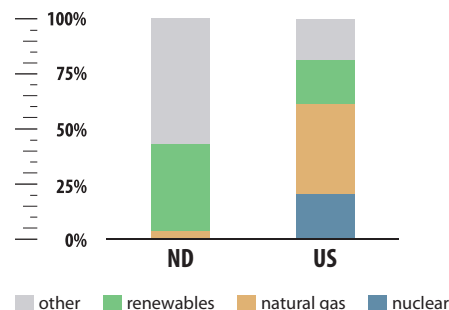
#44

0.63 tCO₂/MWh

CO₂ EMISSIONS RATE
0.1 tCO₂/MWh 0.9 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#38

17,490
(2020)



COVID-19 job losses totaled at least 1,267 March-December 2020 (cumulative).



CLEAN ENERGY RANKINGS

#48

ENERGY EFFICIENCY
SCORE = 6



#48

4% GENERATION FROM
NATURAL GAS



#12

39% GENERATION FROM
RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#18

798 MW
(2020)

NEW BUILD



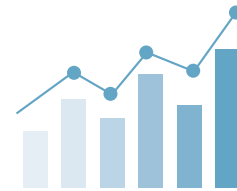
#16

4,689 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR NORTH DAKOTA



\$6.4 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY20

\$1.7 MILLION Office of Science grants in FY20

\$3.6 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY20

\$500 THOUSAND Advanced Research Projects Agency-Energy grants since FY2009

1 GRANT By ARPA-E since 2009

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.