

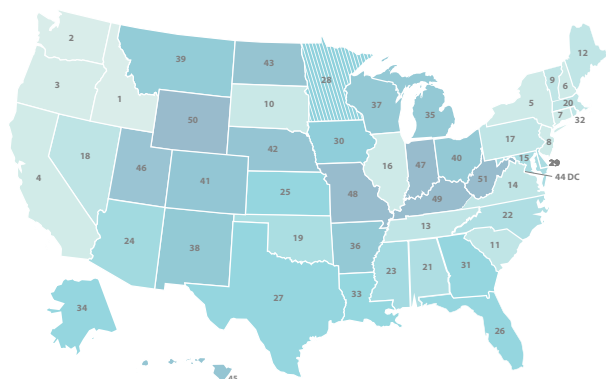
HOW DOES MINNESOTA STACK UP ON CLEAN ENERGY?



DATA AS OF 2019

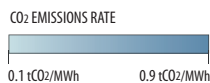


LOWEST CO₂ EMISSIONS RATE

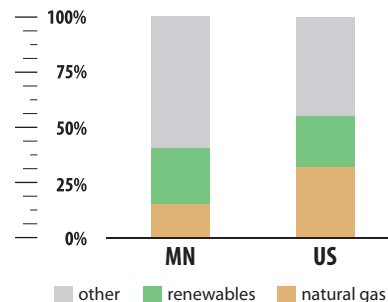


#28

0.41 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#20

63,557 (2019)



COVID-19 job losses totaled at least 9,771 March-August 2020 (cumulative).



CLEAN ENERGY RANKINGS

#8

ENERGY EFFICIENCY SCORE = 32.5



#37

19% GENERATION FROM NATURAL GAS



#17

25% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#12

425 MW (2019)

NEW BUILD



#13

5,544 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR MINNESOTA



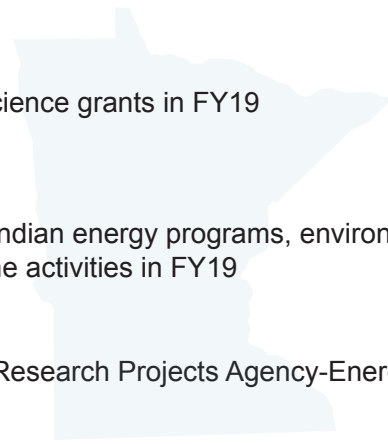
\$14.4 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY19

\$18.2 MILLION Office of Science grants in FY19

\$30 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY19

\$30.1 MILLION Advanced Research Projects Agency-Energy grants since FY2009

11 GRANTS By ARPA-E since 2009



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

#22 **560** JOBS SUPPORTED

#22 **\$58** MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

TERRACOH (MINNEAPOLIS, MN) | www.Terracoh-Age.com



Supported by over \$100k in Department of Energy grants, TerraCOH is introducing into the market its proprietary Carbon Dioxide (CO₂) Plume Geothermal (CPG™) technology, which is the first to use carbon dioxide as its geologic working fluid. TerraCOH's systems enable dispatchable, scalable, baseloaded and negative emission power production—as well as high efficiency, affordable, small to grid-scale energy storage—and are particularly well-suited to transition/leverage the oil and gas workforce to a renewable future.