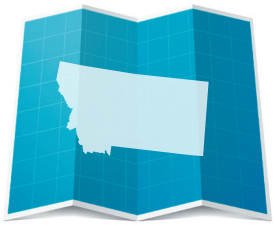
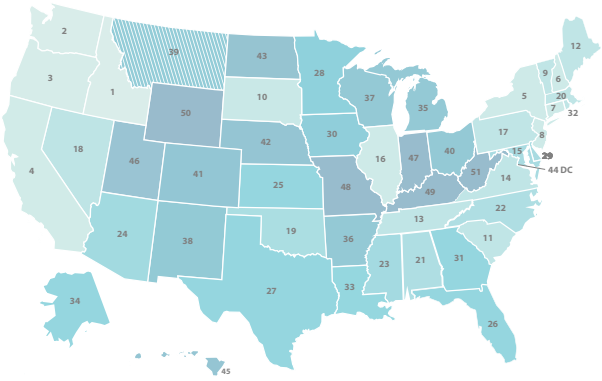
HOW DOES MONTANA STACK UP ON CLEAN ENERGY?



DATA AS OF 2019

LOWEST CO_2 EMISSIONS RATE



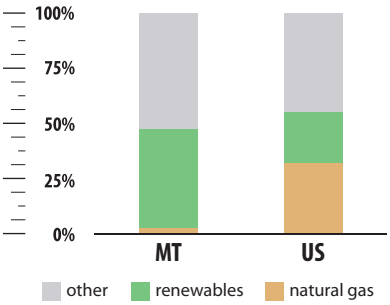
#39

0.59 tCO_2/MWh

CO_2 EMISSIONS RATE

0.1 tCO_2/MWh — 0.9 tCO_2/MWh

ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#48

13,832 (2019)

COVID-19 job losses totaled at least 1,604 March-August 2020 (cumulative).

CLEAN ENERGY RANKINGS

#36

ENERGY EFFICIENCY SCORE = 12.5

#49

2% GENERATION FROM NATURAL GAS

#9

44% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY

#28

83 MW (2019)

NEW BUILD

#20

3,475 MW

CUMULATIVE

CLEAN ENERGY BUSINESS NETWORK

The Business Council For Sustainable Energy

DATA: COLOR SHADING ON ALL INFOGRAPHICS INDICATES PERCENTILE AMONG 50 U.S. STATES AND THE DISTRICT OF COLUMBIA. CLEAN ENERGY INDUSTRIES INCLUDED ARE ENERGY EFFICIENCY, RENEWABLE ENERGY, NATURAL GAS, STORAGE, AND ADVANCED GRID TECHNOLOGIES. SOURCES: BLOOMBERG NEW ENERGY FINANCE, BW RESEARCH, ENERGY INFORMATION ADMINISTRATION, AND AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY. COVID-19 2020 JOB LOSS CALCULATIONS BY BW RESEARCH DO NOT INCLUDE NATURAL GAS SECTOR AND DO INCLUDE ADDITIONAL DATA ON CLEAN VEHICLES, SO ARE NOT PERFECTLY ANALOGOUS WITH 2019 JOB DATA.

ENERGY INNOVATION IN A 21ST CENTURY ECONOMY

WHAT ENERGY INNOVATION MEANS FOR MONTANA

- $4.1 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY19
- $3.3 MILLION Office of Science grants in FY19
- $48.6 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY19
- $2.8 MILLION 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)

#41 90 JOBS SUPPORTED

#43 $7 MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

MONTANA EMERGENT TECHNOLOGIES (BUTTE, MT) | www.SBIR.gov/sbc/Montana-Emergent-Technologies

Montana Emergent Technologies, Inc. has leveraged funding from the Department of Energy's Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs to successfully commercialize "BioSqueeze®," a novel biomineralization technology that uses bacteria to crystallize calcium carbonate to seal micro-fractures and fissures. This technology is used by the petroleum industry to seal leaking oil and gas wells and prevent the emission of greenhouse gases, and also has applications in other industries.

SOURCES: BIPARTISAN POLICY CENTER, USASPENDING.GOV, ARPA-E, BREAKTHROUGH ENERGY