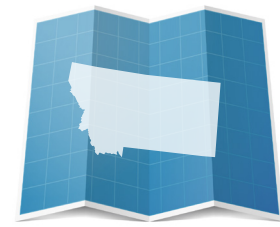


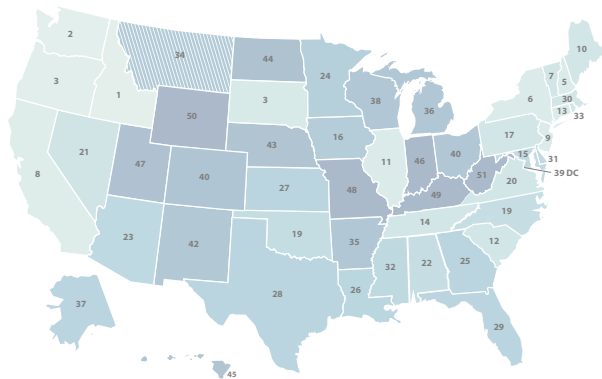
# HOW DOES MONTANA STACK UP ON CLEAN ENERGY?



DATA AS OF 2020



## LOWEST CO<sub>2</sub> EMISSIONS RATE



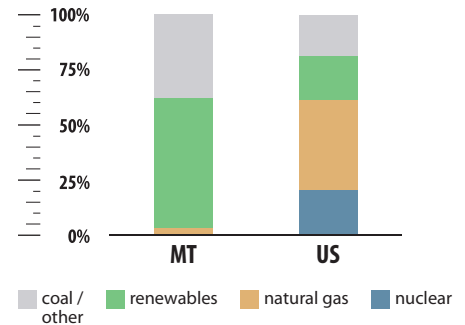
# #34

0.43 tCO<sub>2</sub>/MWh

CO<sub>2</sub> EMISSIONS RATE  
0.1 tCO<sub>2</sub>/MWh 0.9 tCO<sub>2</sub>/MWh



## ELECTRICITY SOURCES



## CLEAN ENERGY JOBS

# #47

13,715  
(2020)



COVID-19 job losses totaled at least 1,463  
March-December 2020 (cumulative).



## CLEAN ENERGY RANKINGS

# #29

ENERGY EFFICIENCY  
SCORE = 15



# #49

2% GENERATION FROM  
NATURAL GAS



# #7

59% GENERATION FROM  
RENEWABLES



## RENEWABLE ELECTRICITY CAPACITY

# #35

80 MW  
(2020)

### NEW BUILD



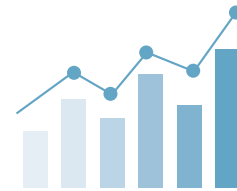
# #24

3,745 MW

### CUMULATIVE



# ENERGY INNOVATION IN A 21<sup>ST</sup> CENTURY ECONOMY



## WHAT ENERGY INNOVATION MEANS FOR MONTANA



**\$6.8 MILLION** Office of Energy Efficiency and Renewable Energy Grants in FY20

**\$5.8 MILLION** Office of Science grants in FY20

**\$8.8 MILLION** State and Indian energy programs, environmental cleanup, and other routine activities in FY20

**\$2.8 MILLION** Advanced Research Projects Agency-Energy grants since FY2009

**1 GRANT** By ARPA-E since 2009

**#41** **90 JOBS SUPPORTED**

**#43** **\$7 MILLION CONTRIBUTED TO GDP**

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

## BUSINESS SPOTLIGHT

**MONTANA EMERGENT TECHNOLOGIES (BUTTE, MT) | [SBIR.gov/sbc/Montana-Emergent-Technologies](https://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.