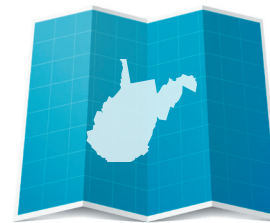


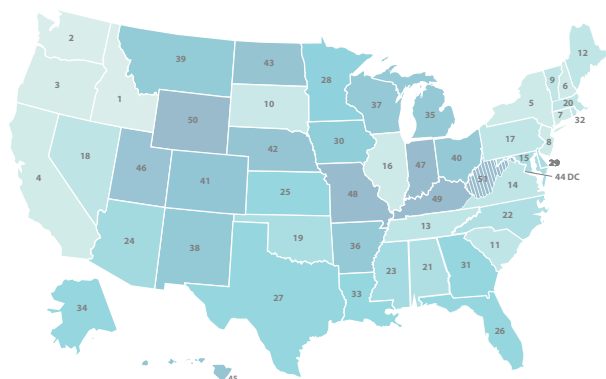
HOW DOES WEST VIRGINIA STACK UP ON CLEAN ENERGY?



DATA AS OF 2019

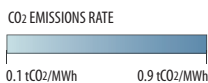


LOWEST CO₂ EMISSIONS RATE

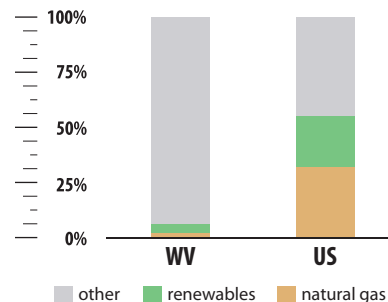


#51

0.90 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#38

18,960 (2019)



COVID-19 job losses totaled at least 1,487 March-August 2020 (cumulative).



CLEAN ENERGY RANKINGS

#48

ENERGY EFFICIENCY SCORE = 6.5



#47

3% GENERATION FROM NATURAL GAS



#42

5% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#32

56 MW (2019)

NEW BUILD



#42

1,101 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR WEST VIRGINIA



\$5.8 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY19

\$4.4 MILLION Office of Science grants in FY19

\$590.8 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY19

\$6.3 MILLION Advanced Research Projects Agency-Energy grants since FY2009

3 GRANTS By ARPA-E since 2009

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

#10 2,890 JOBS SUPPORTED

#11 \$268 MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

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Touchstone Research Laboratory is a research and product development facility that has developed a range of lightweight, strong foam and metal alloy products with extensive defense and energy applications. Much of the laboratory's early research was supported by the Department of Energy, NASA, Department of Defense, and National Science Foundation. Today, Touchstone is a major defense contractor with several spin-off businesses.