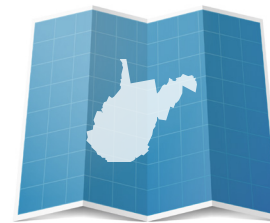


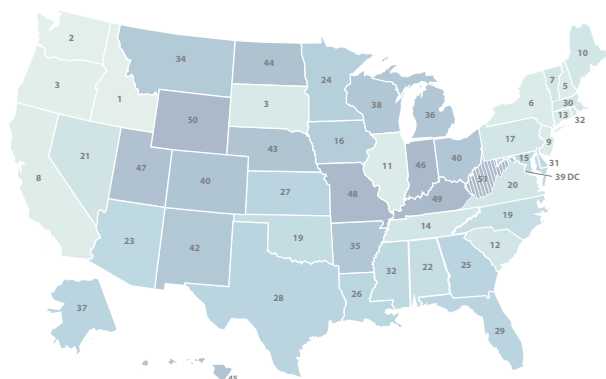
# HOW DOES WEST VIRGINIA STACK UP ON CLEAN ENERGY?



DATA AS OF 2020

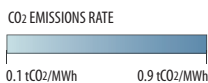


## LOWEST CO<sub>2</sub> EMISSIONS RATE

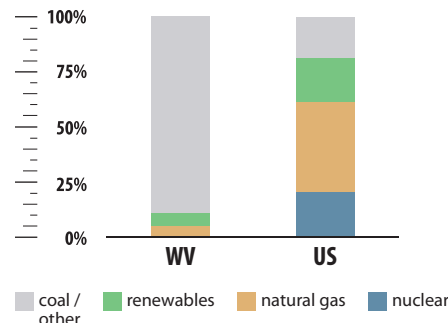


# #51

0.88 tCO<sub>2</sub>/MWh



## ELECTRICITY SOURCES



## CLEAN ENERGY JOBS

# #39



17,273 (2020)

COVID-19 job losses totaled at least 1,310 March-December 2020 (cumulative).



## CLEAN ENERGY RANKINGS

# #48

ENERGY EFFICIENCY SCORE = 6



# #45

5% GENERATION FROM NATURAL GAS



# #42

6% GENERATION FROM RENEWABLES



## RENEWABLE ELECTRICITY CAPACITY

# #37

NEW BUILD



56 MW (2020)

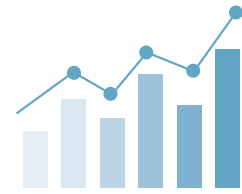
# #42

CUMULATIVE



1,101 MW

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



## WHAT ENERGY INNOVATION MEANS FOR WEST VIRGINIA



**\$7.5 MILLION** Office of Energy Efficiency and Renewable Energy Grants in FY20

**\$1.9 MILLION** Office of Science grants in FY20

**\$7.3 MILLION** State and Indian energy programs, environmental cleanup, and other routine activities in FY20

**\$8.8 MILLION** Advanced Research Projects Agency-Energy grants since FY2009

**4 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

TOUCHSTONE RESEARCH LABORATORY LTD (INC) (TRIADELPHIA, WV) | [TRL.com](http://TRL.com)



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.