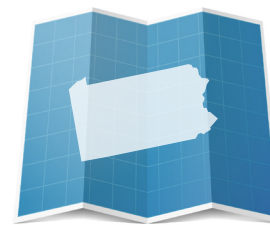


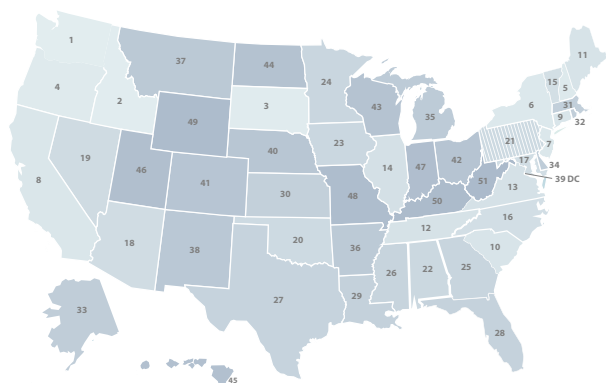
HOW DOES PENNSYLVANIA STACK UP ON CLEAN ENERGY?



DATA AS OF 2021

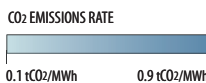


LOWEST CO₂ EMISSIONS RATE

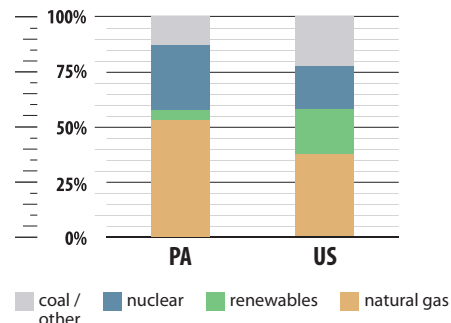


#21

0.33 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#7

106,593 (2021)



Growth/recovery since 2020 totaled 4,498 jobs (4.4%).



CLEAN ENERGY RANKINGS

#19

ENERGY EFFICIENCY SCORE = 22



#12

53% GENERATION FROM NATURAL GAS



#48

3% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#39

8 MW (2021)

NEW BUILD



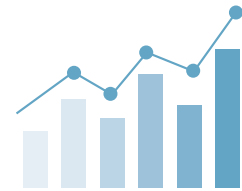
#28

3,659 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR PENNSYLVANIA



\$140.8 MILLION Total Department of Energy funding in FY21

\$39.6 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21

\$52.3 MILLION Office of Science grants in FY21

\$75.4 MILLION Advanced Research Projects Agency-Energy grants since FY2009

134 AWARDS DOE Small Business Innovation Research (SBIR) since 2012

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

#17 980 JOBS SUPPORTED

#16 \$113 MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

BUILDSIMHUB (PITTSBURGH, PA) | BuildSim.io



BuildSimHub Inc provides cloud resources to simplify complex energy calculations and help architects and engineers design more energy-efficient buildings. Founded in 2017, this early-stage company has potential to help reduce emissions from buildings, the largest energy-consuming sector in the U.S. Support from Department of Energy's Small Business Innovation Research (SBIR) program helped the company improve and launch its software to market.