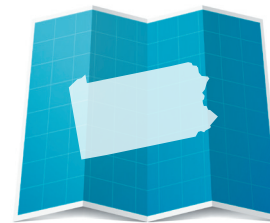


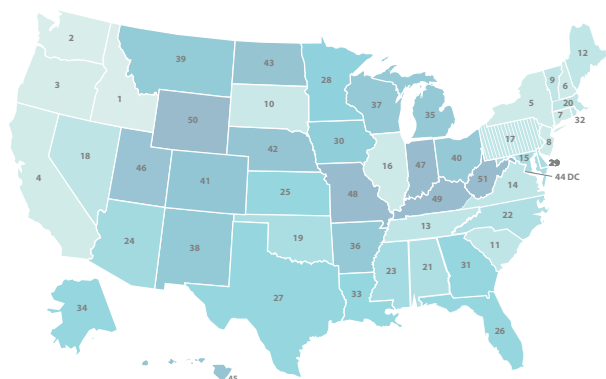
# HOW DOES PENNSYLVANIA STACK UP ON CLEAN ENERGY?



DATA AS OF 2019



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

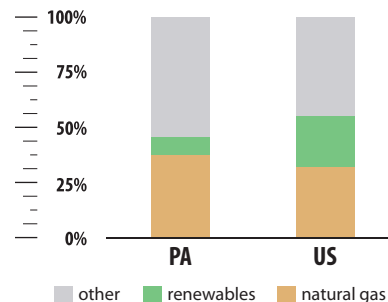


# #17

0.34 tCO<sub>2</sub>/MWh



## ELECTRICITY SOURCES



## CLEAN ENERGY JOBS

# #10



111,954 (2019)

COVID-19 job losses totaled at least 18,290 March-August 2020 (cumulative).



## CLEAN ENERGY RANKINGS

# #18

ENERGY EFFICIENCY SCORE = 23.5



# #16

42% GENERATION FROM NATURAL GAS



# #45

4% GENERATION FROM RENEWABLES



## RENEWABLE ELECTRICITY CAPACITY

# #24

NEW BUILD



116 MW (2019)

# #21

CUMULATIVE



3,559 MW

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



## WHAT ENERGY INNOVATION MEANS FOR PENNSYLVANIA



**\$34.6 MILLION** Office of Energy Efficiency and Renewable Energy Grants in FY19

**\$39 MILLION** Office of Science grants in FY19

**\$743.8 MILLION** State and Indian energy programs, environmental cleanup, and other routine activities in FY19

**\$59.5 MILLION** Advanced Research Projects Agency-Energy grants since FY2009

**24 GRANTS** By ARPA-E since 2009

## 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) | [www.BuildSim.io](http://www.BuildSim.io)**



**BuildSim**

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.