

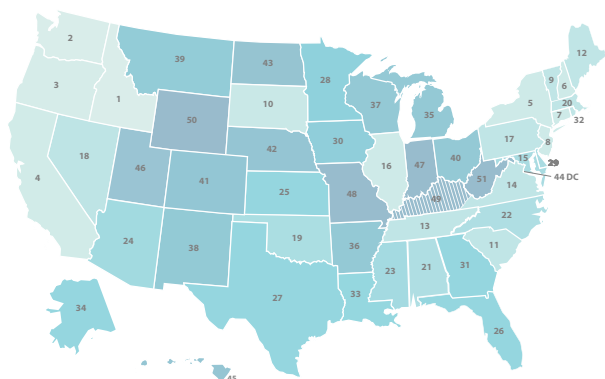
HOW DOES KENTUCKY STACK UP ON CLEAN ENERGY?



DATA AS OF 2019



LOWEST CO₂ EMISSIONS RATE

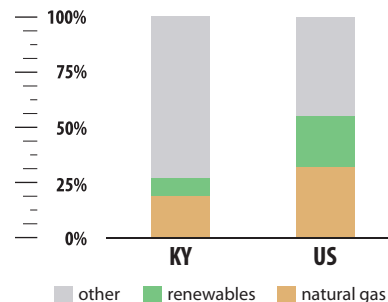


#49

0.84 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#30



39,546 (2019)

COVID-19 job losses totaled at least 11,144 March-August 2020 (cumulative).



CLEAN ENERGY RANKINGS

#38

ENERGY EFFICIENCY SCORE = 11



#35

20% GENERATION FROM NATURAL GAS



#39

6% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#45

4.9 MW (2019)

NEW BUILD



#41

1,273 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR KENTUCKY



\$8.4 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY19

\$5.8 MILLION Office of Science grants in FY19

\$296.5 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY19

\$8 MILLION Advanced Research Projects Agency-Energy grants since FY2009

5 GRANTS By ARPA-E since 2009

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

#25 **470** JOBS SUPPORTED

#27 **\$40** MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

ADVANCED ENERGY MATERIALS, LLC (LOUISVILLE, KY) | <https://AdvancedEnergyMat.com>

Advanced Energy Materials, LLC (ADEM) was founded in 2009 with a vision to commercialize nanowire materials for lithium-ion batteries and energy storage applications. The company found its niche application in the catalysis market and started to develop catalyst products for hydrodesulfurization (HDS) and refinery applications. Since its inception, ADEM has received \$3.2 million in federal and state research and development funding and continues to develop advanced nanomaterials for a wide range of applications.