HOW DOES KENTUCKY STACK UP ON CLEAN ENERGY?

DATA AS OF 2021
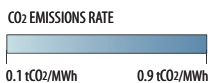
LOWEST CO_2 EMISSIONS RATE
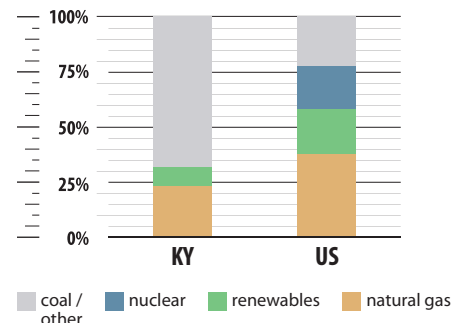

#50

0.80 tCO_2/MWh

CO_2 EMISSIONS RATE
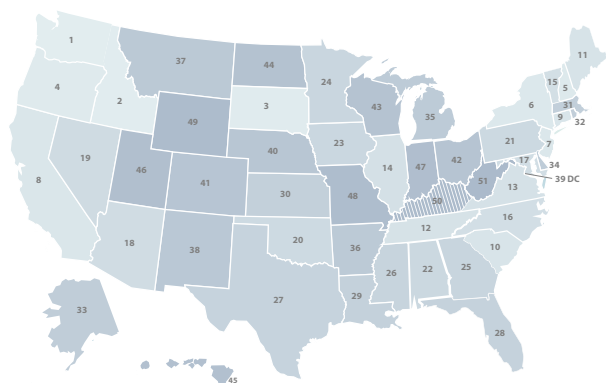
0.1 tCO_2/MWh   0.9 tCO_2/MWh

ELECTRICITY SOURCES

coal / other   nuclear   renewables   natural gas

CLEAN ENERGY JOBS

#30

38,177 (2021)

Growth/recovery since 2020 totaled 2,230 jobs (6.2%).

CLEAN ENERGY RANKINGS

#33

ENERGY EFFICIENCY SCORE = 14

#34

23% GENERATION FROM NATURAL GAS

#39

8% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY
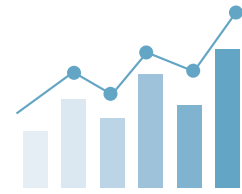
#43

NEW BUILD

3 MW (2021)

#41

CUMULATIVE

1,276 MW

CLEAN ENERGY BUSINESS NETWORK

The Business Council for Sustainable Energy®

DATA: COLOR SHADING ON ALL INFOGRAPHICS INDICATES PERCENTILE AMONG 50 U.S. STATES AND THE DISTRICT OF COLUMBIA. CLEAN ENERGY INDUSTRIES INCLUDED ARE ENERGY EFFICIENCY, RENEWABLE ENERGY, NATURAL GAS, STORAGE, AND ADVANCED GRID TECHNOLOGIES. SOURCES: BLOOMBERG NEW ENERGY FINANCE, BW RESEARCH, ENERGY INFORMATION ADMINISTRATION (2021), AND AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY (2020).

ENERGY INNOVATION
IN A 21ST CENTURY ECONOMY

WHAT ENERGY INNOVATION MEANS FOR KENTUCKY

$14.6 MILLION Total Department of Energy funding in FY21

$6.6 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21

$4.1 MILLION Office of Science grants in FY21

$10.4 MILLION Advanced Research Projects Agency-Energy grants since FY2009

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

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) | AdvancedEnergyMat.com

ADVANCED ENERGY MATERIALS

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.

SOURCES: BIPARTISAN POLICY CENTER, USASPENDING.GOV, ARPA-E, BREAKTHROUGH ENERGY