HOW DOES KENTUCKY STACK UP ON CLEAN ENERGY?

DATA AS OF 2022

LOWEST CO₂ EMISSIONS RATE
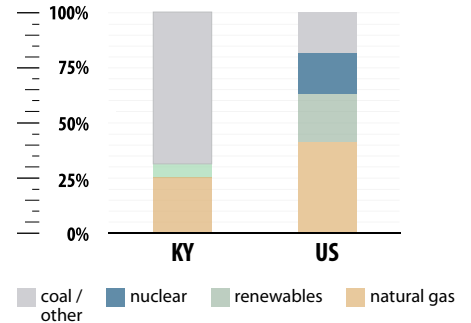
#50

0.80 tCO₂/MWh
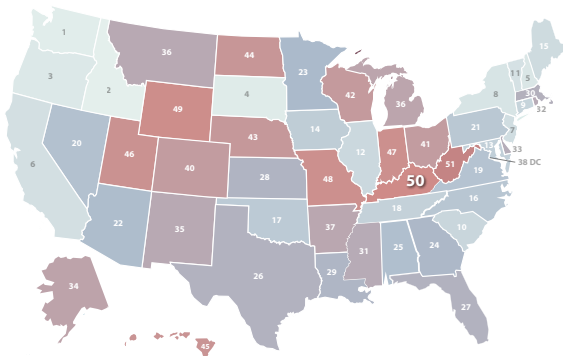
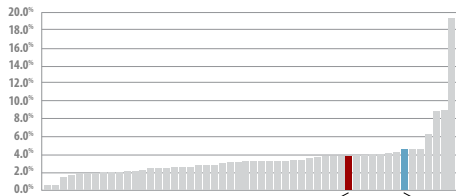0.09 tCO₂/MWh   0.9 tCO₂/MWh

ELECTRICITY SOURCES

Legend: coal / other | nuclear | renewables | natural gas

CLEAN ENERGY JOBS

#30

46,463 (2022)

3,511 JOBS ANNOUNCED THROUGH NEW CLEAN ENERGY PROJECTS SINCE THE INFLATION REDUCTION ACT

Clean Energy Job Growth (2021-2022)

U.S. **3.9%**

KY **4.6%**

All states and U.S. total ranked from lowest to highest % job growth

CLEAN ENERGY RANKINGS

#38
ENERGY EFFICIENCY SCORE = 7

#34
25% GENERATION FROM NATURAL GAS

#41
7% GENERATION FROM RENEWABLES
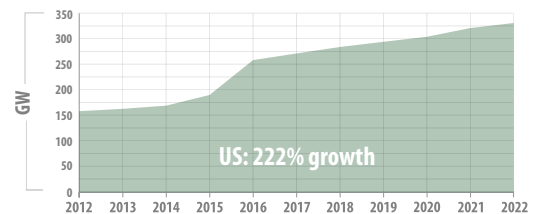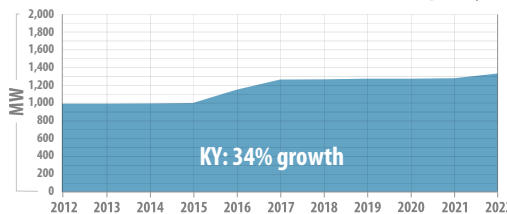
RENEWABLE ELECTRICITY CAPACITY

#40
CUMULATIVE BUILD
1,297 MW

#34
NEW BUILD (2022)
50 MW

Growth in Capacity Over the Past Decade (2012-2022)

KY: 34% growth

US: 222% growth

CLEAN ENERGY BUSINESS NETWORK®

The Business Council for Sustainable Energy®

INVESTING IN CLEAN ENERGY INNOVATION AND DEPLOYMENT
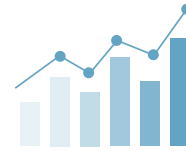
WHAT ENERGY INNOVATION MEANS FOR KENTUCKY

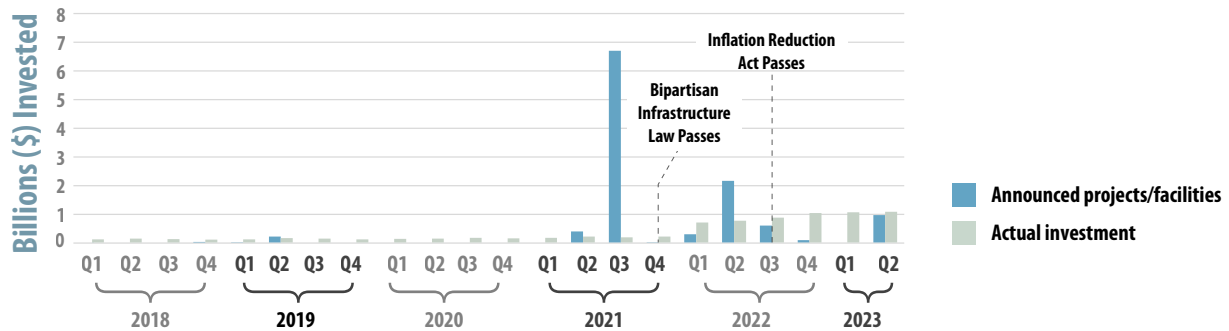**$183.5 MILLION** Total Department of Energy funding in FY22

$83.8 MILLION Office of Energy Efficiency and Renewable Energy grants in FY22

$11.6 MILLION Advanced Research Projects Agency-Energy grants in FY22

$28.1 MILLION Office of Science grants in FY22

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

CLEAN ENERGY INVESTMENT

Billions ($) Invested

Inflation Reduction Act Passes

Bipartisan Infrastructure Law Passes

■ Announced projects/facilities
■ Actual investment

Q1 Q2 Q3 Q4 | Q1 Q2 Q3 Q4 | Q1 Q2 Q3 Q4 | Q1 Q2 Q3 Q4 | Q1 Q2 Q3 Q4 | Q1 Q2
2018 | 2019 | 2020 | 2021 | 2022 | 2023

BUSINESS SPOTLIGHT
ADVANCED ENERGY MATERIALS, LLC (LOUISVILLE, KY) | www.AdvancedEnergyMat.com

ADVANCED ENERGY MATERIALS

Advanced Energy Materials, LLC (ADEM) was started in 2009 with a goal to develop and supply nanowire-based catalyst and adsorbent products specifically for oil & gas refineries, carbon capture, hydrogenation and fuel cell applications. Since its inception, ADEM has received $6.2 million in federal and state research and development funding and continues to develop advanced nanomaterials for a wide range of applications. ADEM's newest innovations are adsorbent and catalyst materials for CO_2 capture and conversion to value-added chemicals like methanol.