

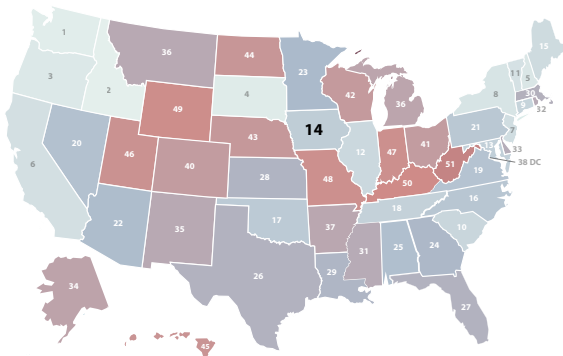
HOW DOES IOWA STACK UP ON CLEAN ENERGY?



DATA AS OF 2022



LOWEST CO₂ EMISSIONS RATE

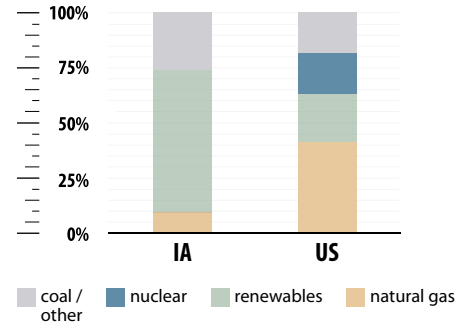


#14

0.29 tCO₂/MWh



ELECTRICITY SOURCES



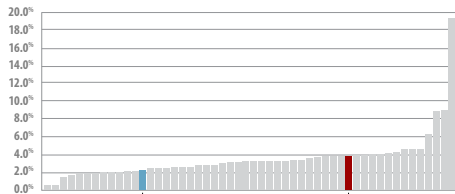
CLEAN ENERGY JOBS

Clean Energy Job Growth (2021-2022)

#31

43,768 (2022)

950 JOBS ANNOUNCED THROUGH NEW CLEAN ENERGY PROJECTS SINCE THE INFLATION REDUCTION ACT



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



CLEAN ENERGY RANKINGS

#35

ENERGY EFFICIENCY SCORE = 8



#42

9% GENERATION FROM NATURAL GAS



#6

65% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

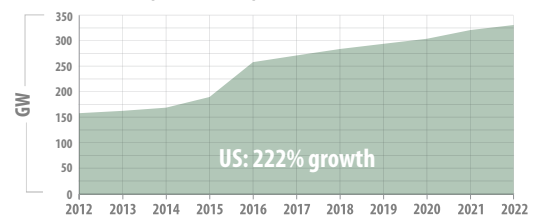
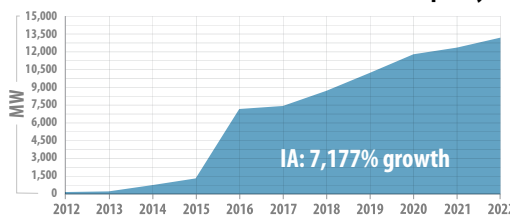
#5

CUMULATIVE BUILD 12,957 MW

#5

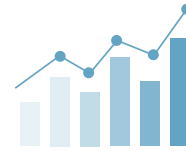
NEW BUILD (2022) 779 MW

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



SOURCES: BloombergNEF, U.S. Energy & Employment Report (Department of Energy), Energy Information Administration, American Council for an Energy-Efficiency Economy (ACEEE), Climate Power. All data are as of 2022, except jobs since passage of Inflation Reduction Act (8.15.22-9.30.23). Clean energy jobs include renewable, grid, storage, transmission and distribution, nuclear, and advanced vehicle technologies. Renewable energy capacity data include solar, wind, biomass/waste, geothermal, hydropower. See complete methodology at [CEBN.org/State-of-Clean-Energy](https://cebn.org/State-of-Clean-Energy).

INVESTING IN CLEAN ENERGY INNOVATION AND DEPLOYMENT



WHAT ENERGY INNOVATION MEANS FOR IOWA



\$272.2 MILLION Total Department of Energy funding in FY22

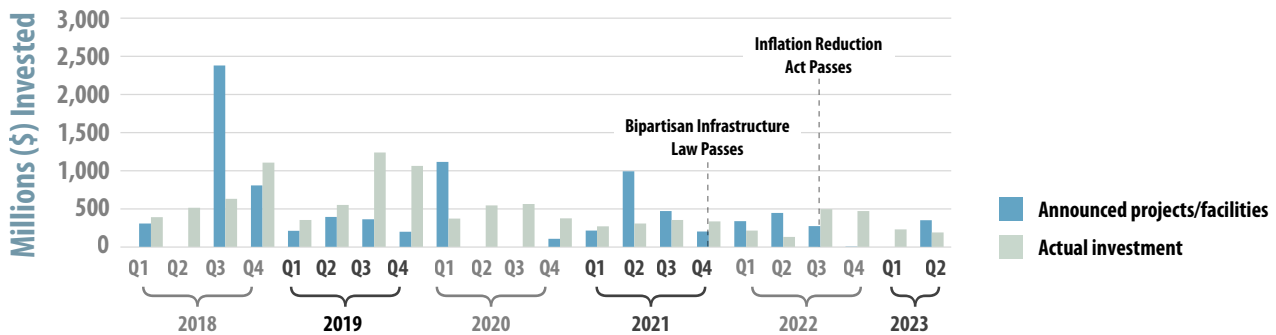
\$54.3 MILLION Office of Energy Efficiency and Renewable Energy grants in FY22

\$16.6 MILLION Advanced Research Projects Agency-Energy grants in FY22

\$177.4 MILLION Office of Science grants in FY22

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

CLEAN ENERGY INVESTMENT



BUSINESS SPOTLIGHT

FRONTLINE BIOENERGY (AMES, IA) | www.FrontlineBioEnergy.com



Frontline Bioenergy converts biomass and waste-based feedstocks into value energy, fuels, and chemicals. The company received a Department of Energy grant to develop a pilot biomass-to-jet/diesel fuel plant using an innovative gasification and Fischer-Tropsch process, based on Frontline's patented gasification technology. Separately, the company is developing an estimated \$130 million renewable natural gas project near Bakersfield in the San Joaquin Valley of California.

SOURCES: Bipartisan Policy Center, USASpending.gov, Clean Investment Monitor from Rhodium Group and MIT's Center for Energy and Environmental Policy Research. View complete methodology at CEBN.org/State-of-Clean-Energy.