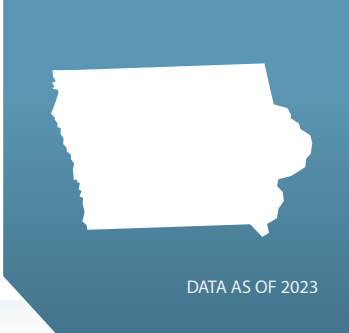


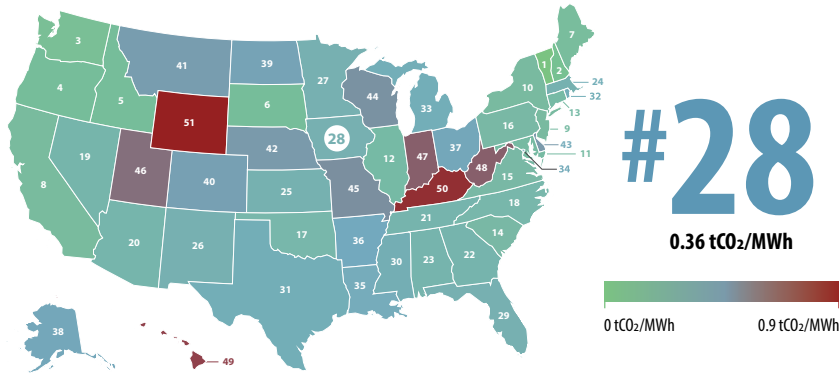
HOW DOES IOWA STACK UP ON CLEAN ENERGY?



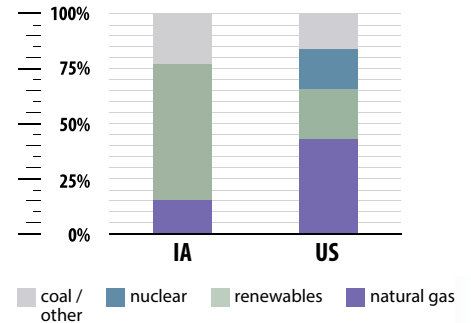
DATA AS OF 2023



Lowest CO₂ Emissions Rate



Electricity Sources

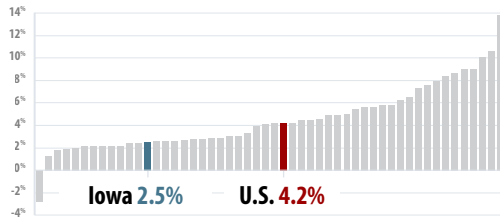


Clean Energy Jobs

#31

44,546
Clean Energy
Jobs

Clean Energy Job Growth (2022-2023)



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



Clean Energy Rankings

#35

ENERGY EFFICIENCY
SCORE = 8



#41

15% GENERATION
FROM NATURAL GAS



#7

62% GENERATION
FROM RENEWABLES



Renewable Electricity Capacity

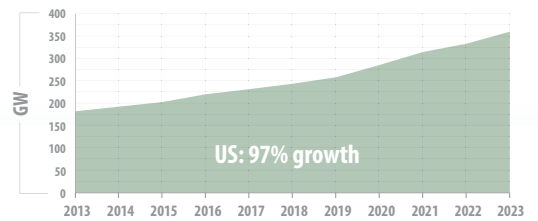
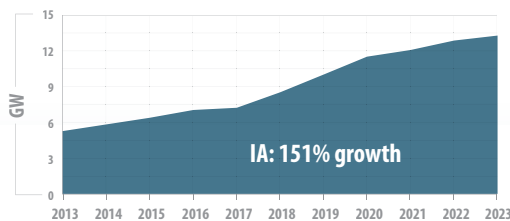
#21

NEW BUILD (2023)
427 MW

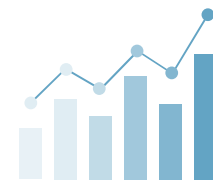
#6

CUMULATIVE BUILD
13,269 MW

Growth in Capacity Over the Past Decade (2013-2023)



INVESTING IN CLEAN ENERGY INNOVATION AND DEPLOYMENT



WHAT ENERGY INNOVATION MEANS FOR IOWA



\$423 MILLION Total Department of Energy funding in FY23

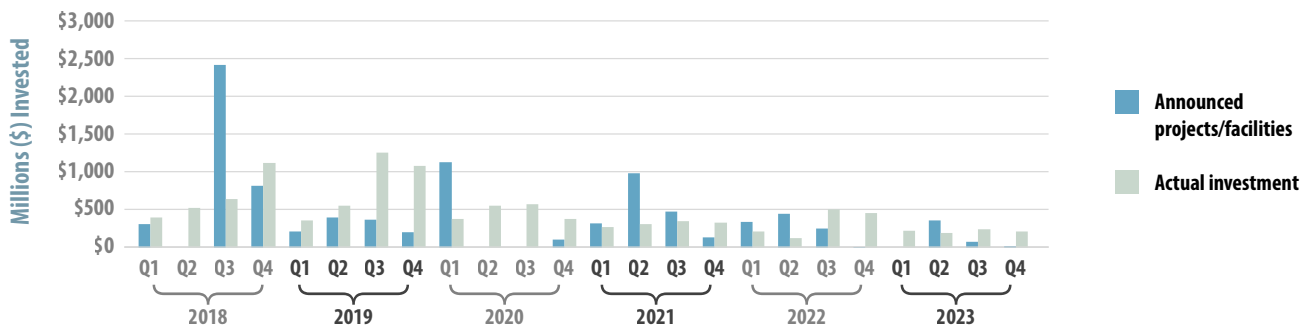
\$109 MILLION Office of Energy Efficiency and Renewable Energy grants in FY23

\$263 MILLION Office of Science grants in FY23

\$223 THOUSAND Advanced Research Projects Agency-Energy grants in FY23

12 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 high-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.