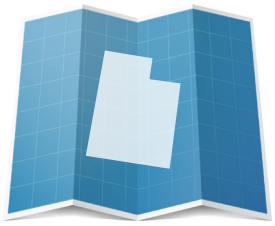
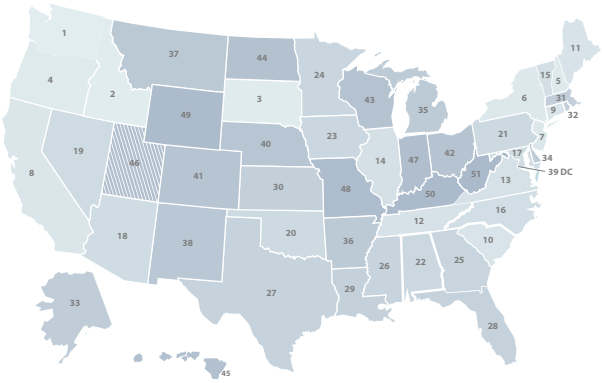
HOW DOES UTAH STACK UP ON CLEAN ENERGY?



DATA AS OF 2021

LOWEST CO_2 EMISSIONS RATE



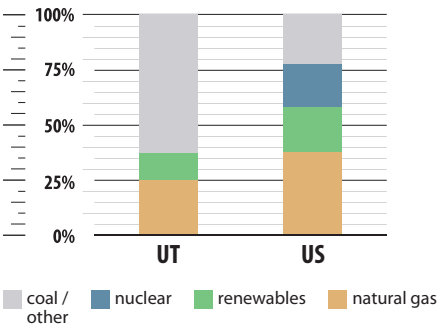
#46

0.70 tCO_2/MWh

CO_2 EMISSIONS RATE

0.1 tCO_2/MWh — 0.9 tCO_2/MWh

ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#26

46,001 (2021)

Growth/recovery since 2020 totaled 1,065 jobs (2.4%).

CLEAN ENERGY RANKINGS

#22

ENERGY EFFICIENCY SCORE = 21

#31

26% GENERATION FROM NATURAL GAS

#29

12% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY

#24

349 MW (2021)

NEW BUILD

#34

2,927 MW

CUMULATIVE

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 UTAH

- $72.1 MILLION Total Department of Energy funding in FY21
- $8 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21
- $18.3 MILLION Office of Science grants in FY21
- $46.8 MILLION Advanced Research Projects Agency-Energy grants since FY2009
- 110 AWARDS DOE Small Business Innovation Research (SBIR) since 2012

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

#37 160 JOBS SUPPORTED

#38 $14 MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

SUSTAINABLE ENERGY SOLUTIONS (OREM, UT) | www.SesInnovation.com

SES INNOVATION

Sustainable Energy Solutions, a Chart Industries company, is an engineering firm designing innovative technologies for carbon sequestration, natural gas treating, and efficient heat exchangers. The company's flagship technology, Cryogenic Carbon Capture (CCC), was developed with support from several Department of Energy and ARPA-E awards. CCC is a post-combustion technology that has the potential to reduce emissions by 95-99%, at half the cost of similar technologies.

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