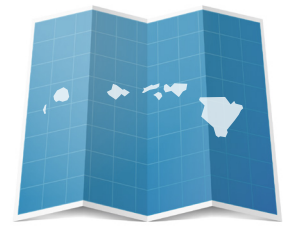


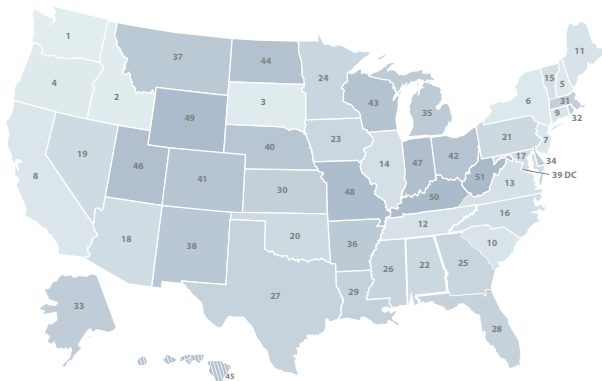
HOW DOES HAWAII STACK UP ON CLEAN ENERGY?



DATA AS OF 2021



LOWEST CO₂ EMISSIONS RATE



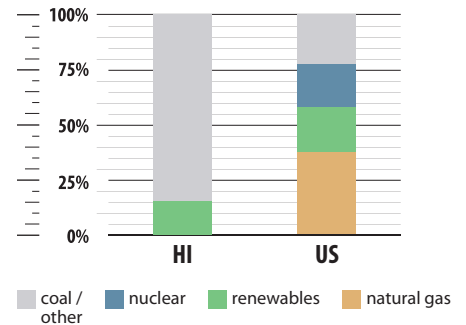
#45

0.69 tCO₂/MWh

CO₂ EMISSIONS RATE
0.1 tCO₂/MWh 0.9 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#42

15,667
(2021)



Growth/recovery since 2020 totaled
331 jobs (2.2%).



CLEAN ENERGY RANKINGS

#14

ENERGY EFFICIENCY
SCORE = 28



#51

0% GENERATION FROM
NATURAL GAS



#23

16% GENERATION FROM
RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#41

4 MW
(2021)

NEW BUILD



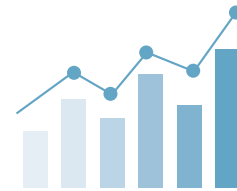
#40

1,516 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR HAWAII



\$12.9 MILLION Total Department of Energy funding in FY21

\$778 THOUSAND Office of Energy Efficiency and Renewable Energy Grants in FY21

\$6.9 MILLION Office of Science grants in FY21

\$8.6 MILLION Advanced Research Projects Agency-Energy grants since FY2009

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

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

#49 **20** JOBS SUPPORTED

#49 **\$2** MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

MAKAI OCEAN ENGINEERING, INC (KAILUA, HI) | Makai.com



Makai Ocean Engineering, Inc. is an innovative ocean technology and engineering firm. Makai's core technical areas include submarine cables, ocean energy, marine pipelines, underwater vehicles, buoys, and communications systems. The company has received funding from the Departments of Energy, Commerce, and Defense to support this research.