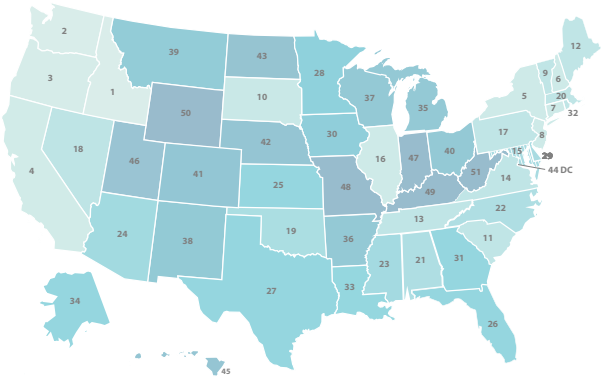
HOW DOES MARYLAND STACK UP ON CLEAN ENERGY?

DATA AS OF 2019

LOWEST CO_2 EMISSIONS RATE



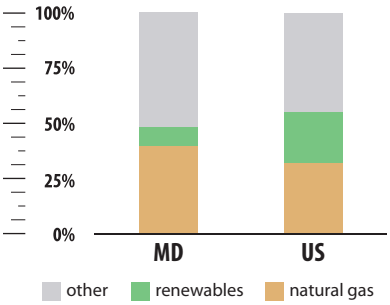
#15

0.33 tCO_2/MWh

CO_2 EMISSIONS RATE

0.1 tCO_2/MWh — 0.9 tCO_2/MWh

ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#13

87,093 (2019)

COVID-19 job losses totaled at least 10,071 March-August 2020 (cumulative).

CLEAN ENERGY RANKINGS

#7

ENERGY EFFICIENCY SCORE = 34.5

#20

38% GENERATION FROM NATURAL GAS

#30

10% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY

#34

41 MW (2019)

NEW BUILD

#34

2,054 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, AND AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY. COVID-19 2020 JOB LOSS CALCULATIONS BY BW RESEARCH DO NOT INCLUDE NATURAL GAS SECTOR AND DO INCLUDE ADDITIONAL DATA ON CLEAN VEHICLES, SO ARE NOT PERFECTLY ANALOGOUS WITH 2019 JOB DATA.

ENERGY INNOVATION IN A 21ST CENTURY ECONOMY

WHAT ENERGY INNOVATION MEANS FOR MARYLAND

- $16 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY19
- $33 MILLION Office of Science grants in FY19
- $168 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY19
- $50 MILLION Advanced Research Projects Agency-Energy grants since FY2009
- 22 GRANTS By ARPA-E since 2009

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

#28 400 JOBS SUPPORTED

#25 $52 MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

OPTIMIZED THERMAL SYSTEMS (BELTSVILLE, MD) | www.OptimizedThermalSystems.com

Optimized Thermal Systems is a University of Maryland spinoff company providing technical expertise and equipment to help energy companies test and refine technologies to get ready for market. One of OTS' projects is supported by a Department of Energy grant and seeks to develop a more efficient model of a heat exchanger (technology that moves heat from one medium to another, such as from the air to a refrigerant). The new design OTS is developing will significantly reduce refrigerant leakage, waste, energy use, costs, and emissions. It has received almost $200k in Department of Energy grant support.

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