HOW DOES MARYLAND STACK UP ON CLEAN ENERGY?

DATA AS OF 2021
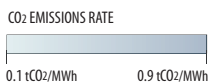
LOWEST CO_2 EMISSIONS RATE
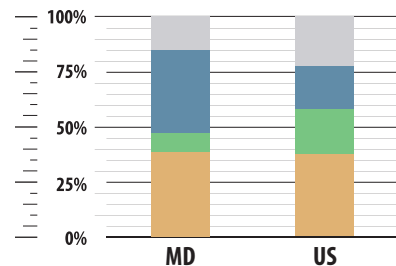
#17

0.32 tCO₂/MWh

CO_2 EMISSIONS RATE
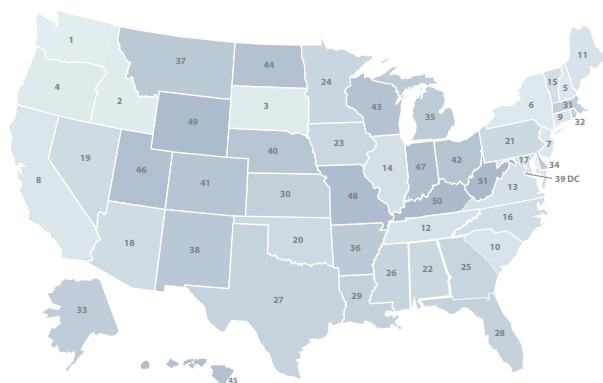
0.1 tCO₂/MWh   0.9 tCO₂/MWh

ELECTRICITY SOURCES

100%
75%
50%
25%
0%

MD   US

coal / other   nuclear   renewables   natural gas

CLEAN ENERGY JOBS

#12

80,832 (2021)

Growth/recovery since 2020 totaled 523 jobs (0.7%).

CLEAN ENERGY RANKINGS

#6
ENERGY EFFICIENCY SCORE = 35

#23
39% GENERATION FROM NATURAL GAS

#37
8% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY

#32
NEW BUILD

52 MW (2021)

#38
CUMULATIVE

2,162 MW

CLEAN ENERGY BUSINESS NETWORK

The Business Council for Sustainable Energy®

ENERGY INNOVATION
IN A 21ST CENTURY ECONOMY

WHAT ENERGY INNOVATION MEANS FOR MARYLAND

$219 MILLION Total Department of Energy funding in FY21

$19.8 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21

$23.6 MILLION Office of Science grants in FY21

$66.7 MILLION Advanced Research Projects Agency-Energy grants since FY2009

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

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) | OptimizedThermalSystems.com

Optimized Thermal Systems, Inc. is a University of Maryland spinoff company providing technical expertise to help energy companies design, test and refine technologies to get ready for market. One of OTS' recent projects was supported by a Department of Energy grant and was successful in developing a new heat exchanger (technology that moves heat from one medium to another, such as from the air to a refrigerant) for refrigeration and air conditioning applications. The new design OTS developed significantly reduces refrigerant leakage and emissions while delivering equal or better performance at a fraction of the cost.