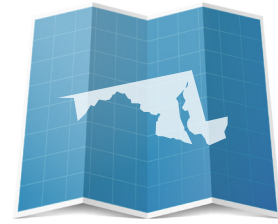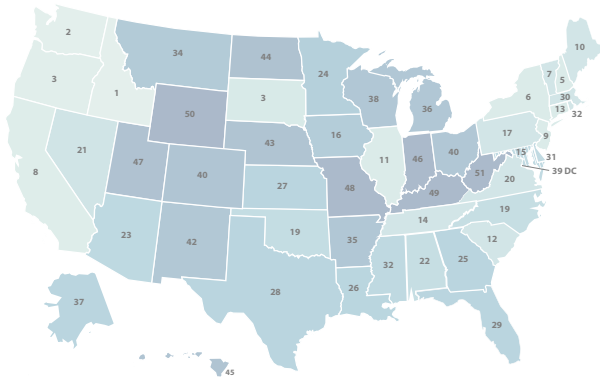# HOW DOES MARYLAND STACK UP ON CLEAN ENERGY?

DATA AS OF 2020

LOWEST CO_2 EMISSIONS RATE
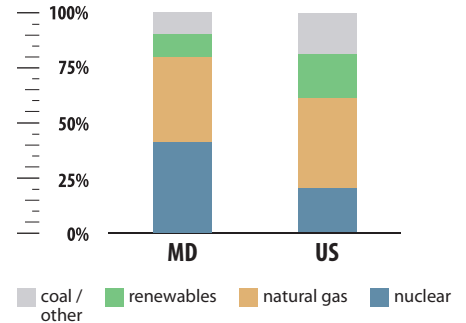

#15

0.27 tCO₂/MWh

CO₂ EMISSIONS RATE

0.1 tCO2/MWh   0.9 tCO2/MWh

ELECTRICITY SOURCES

■ coal / other   ■ renewables   ■ natural gas   ■ nuclear

CLEAN ENERGY JOBS

#12

80,309 (2020)

COVID-19 job losses totaled at least 8,499 March-December 2020 (cumulative).

CLEAN ENERGY RANKINGS

#6
ENERGY EFFICIENCY SCORE = 35

#22
39% GENERATION FROM NATURAL GAS

#35
10% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY

#40

NEW BUILD

35 MW (2020)

#37

CUMULATIVE

2,089 MW

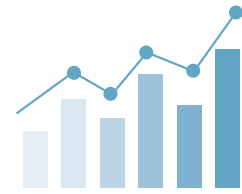CLEAN ENERGY BUSINESS NETWORK

The Business Council for Sustainable Energy®

ENERGY INNOVATION IN A 21ST CENTURY ECONOMY

WHAT ENERGY INNOVATION MEANS FOR MARYLAND

$19.4 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY20

$21 MILLION Office of Science grants in FY20

$14.6 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY20

$64.1 MILLION Advanced Research Projects Agency-Energy grants since FY2009

28 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) | 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.