

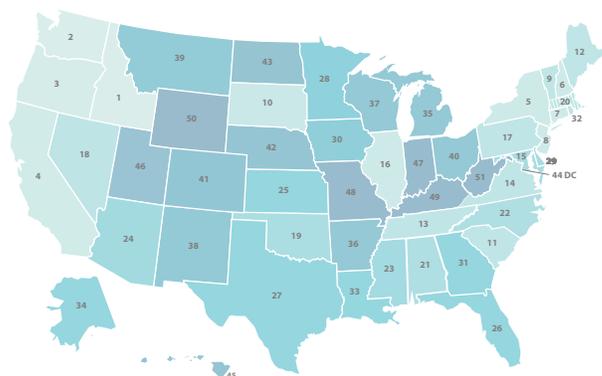
HOW DOES MASSACHUSETTS STACK UP ON CLEAN ENERGY?



DATA AS OF 2019



LOWEST CO₂ EMISSIONS RATE

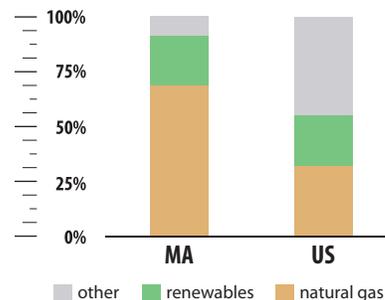


#20

0.36 tCO₂/MWh



ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#7

127,288 (2019)



COVID-19 job losses totaled at least 14,431 March-August 2020 (cumulative).



CLEAN ENERGY RANKINGS

#1

ENERGY EFFICIENCY SCORE = 44.5



#6

70% GENERATION FROM NATURAL GAS



#23

17% GENERATION FROM RENEWABLES



RENEWABLE ELECTRICITY CAPACITY

#26

99 MW (2019)

NEW BUILD



#23

3,307 MW

CUMULATIVE



ENERGY INNOVATION IN A 21ST CENTURY ECONOMY



WHAT ENERGY INNOVATION MEANS FOR MASSACHUSETTS



\$24.4 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY19

\$103.4 MILLION Office of Science grants in FY19

\$58.8 MILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY19

\$209.6 MILLION Advanced Research Projects Agency-Energy grants since FY2009

74 GRANTS By ARPA-E since 2009

#16 990 JOBS SUPPORTED

#14 \$144 MILLION CONTRIBUTED TO GDP

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

BUSINESS SPOTLIGHT

MEDLEY THERMAL (SOMERVILLE, MA) | www.MedleyThermal.com

Medley Thermal provides intelligent control system software for dynamic electrification, which is the process of switching between fossil fuels and electricity to power steam generation from a boiler. In a dynamically electrified system, an electric boiler is installed in parallel with an existing boiler system, creating a hybrid system. Medley Thermal's software enables switching between the energy sources optimally without disruption to the supply of steam. This allows a building to take advantage of electricity at times when it is inexpensive and clean, reducing energy costs and emissions associated with steam generation. The company has received \$200k in Department of Energy grants to support development of its technology.

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