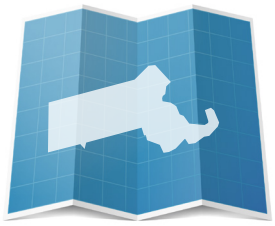
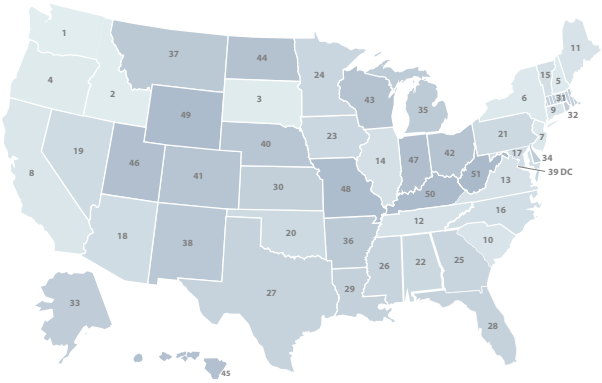
HOW DOES MASSACHUSETTS STACK UP ON CLEAN ENERGY?



DATA AS OF 2021

LOWEST CO_2 EMISSIONS RATE



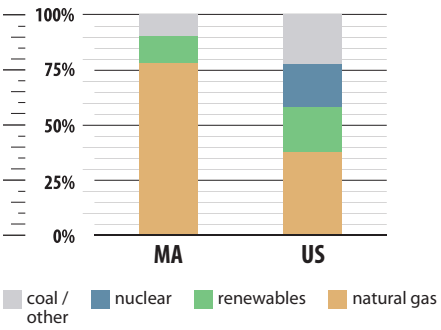
#31

0.41 tCO_2/MWh

CO_2 EMISSIONS RATE

0.1 tCO_2/MWh — 0.9 tCO_2/MWh

ELECTRICITY SOURCES



CLEAN ENERGY JOBS

#6

116,063 (2021)

Growth/recovery since 2020 totaled 3,429 jobs (3%).

CLEAN ENERGY RANKINGS

#2

ENERGY EFFICIENCY SCORE = 43

#4

78% GENERATION FROM NATURAL GAS

#27

13% GENERATION FROM RENEWABLES

RENEWABLE ELECTRICITY CAPACITY

#28

217 MW (2021)

NEW BUILD

#27

3,670 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 (2021), AND AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY (2020).

ENERGY INNOVATION IN A 21ST CENTURY ECONOMY

WHAT ENERGY INNOVATION MEANS FOR MASSACHUSETTS

- $189.7 MILLION Total Department of Energy funding in FY21
- $43.1 MILLION Office of Energy Efficiency and Renewable Energy Grants in FY21
- $109.8 MILLION Office of Science grants in FY21
- $264.4 MILLION Advanced Research Projects Agency-Energy grants since FY2009
- 556 AWARDS DOE Small Business Innovation Research (SBIR) since 2012

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

#16 990 JOBS SUPPORTED

#14 $144 MILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

MEDLEY THERMAL (SOMERVILLE, MA) | MedleyThermal.com

MEDLEY THERMAL

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