HOW DOES MICHIGAN STACK UP ON CLEAN ENERGY?



DATA AS OF 2020





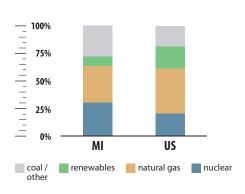
#36 0.46 tCO₂/MWh

CO2 EMISSIONS RATE

0.1 tCO2/MWh

0.9 tCO2/MWh

ELECTRICITYSOURCES





CLEAN ENERGY JOBS



106,869 (2020)



COVID-19 job losses totaled at least 21,946 March-December 2020 (cumulative).



CLEAN ENERGY RANKINGS

#13

ENERGY EFFICIENCY
SCORE = 29

#27

34% GENERATION FROM NATURAL GAS

#36

10% GENERATION FROM RENEWABLES







#8

1,304 MW (2020) **NEW BUILD**



#19 4,489 MW

CUMULATIVE







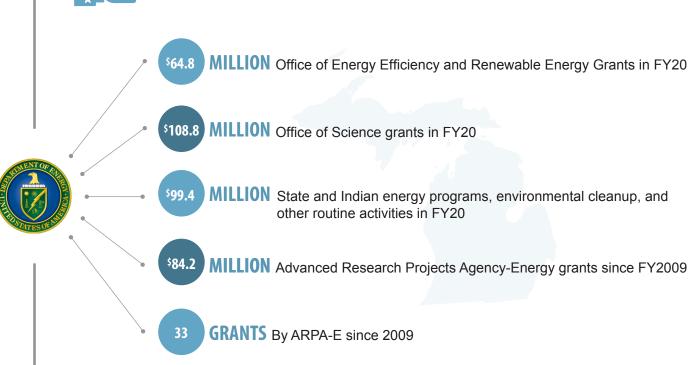
DATA: COLOR SHADING ON ALL INFOGRAPHICS INDICATES PERCENTILE AMONG 50 U.S. STATES AND THE DISTRICT OF COLUMBIA. CLEAN ENERGY INDUSTRIES INCLUDED ARE ENERGY EFFICIENCY, RENEWABLE ENERGY, NATURAL GAS, STORAGE, AND ADVANCED GRID TECHNOLOGIES. SOURCES: BLOOMBERG NEW ENERGY FINANCE, BW RESEARCH, ENERGY INFORMATION 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 2020 JOB DATA.

ENERGY INNOVATION IN A 21st CENTURY ECONOMY





WHAT ENERGY INNOVATION MEANS FOR MICHIGAN



#14 1,200 JOBS SUPPORTED

#15 \$122 MILLION CONTRIBUTED TO GDP

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

BUSINESS SPOTLIGHT

FLASH STEELWORKS (WASHINGTON, MI) | FlashBainite.com



Flash Steelworks is the innovator of technology to make steel lighter and stronger, with dramatic potential benefits for fuel efficiency (i.e., vehicle lightness), military applications, and a range of other beneficial uses. The company is based in Michigan's Lower Peninsula and has worked with Oak Ridge National Laboratory in Tennessee to help develop the technology, with support from a number of Department of Energy Small Business Innovation Research (SBIR) awards. The firm is now launching commercial production of its steel. In 2017, the company was recognized as Department of Energy's SBIR Small Business of the Year.