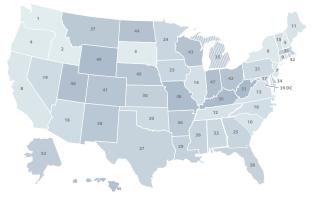
HOW DOES MICHIGAN STACK UP ON CLEAN ENERGY?



DATA AS OF 2021



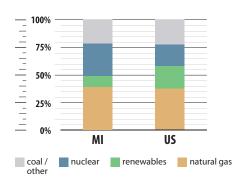


#35

0.48 tCO₂/MWh

0.1 tCO2/MWh 0.9 tCO2/MWh







CLEAN ENERGY JOBS



105,407 (2021)



Change since 2020: -1,462 jobs (-1.4%)



CLEAN ENERGY RANKINGS

#13

ENERGY EFFICIENCY
SCORE = 29

#26

35% GENERATION FROM NATURAL GAS

#36

9% GENERATION FROM RENEWABLES







#15
705 MW (2021)

NEW BUILD



#19
5,222 MW

CUMULATIVE







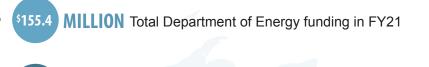
DATA: COLOR SHADING ON ALL INFOGRAPHICS INDICATES PERCENTILE AMONG 50 U.S. STATES AND THE DISTRICT OF COLUMBIA. CLEAN ENERGY INDUSTRIES INCLUDED ARE ENERGY EFFICIENCY, RENEWABLE ENERGY, NATURAL GAS, STORAGE, AND ADVANCED GRID TECHNOLOGIES. SOURCES: BLOOMBERG NEW ENERGY FINANCE, BW RESEARCH, ENERGY INFORMATION ADMINISTRATION (2021), AND AMERICAN COUNCIL FOR AN ENERGY-EFFICIENT ECONOMY (2020).

ENERGY INNOVATION IN A 21st CENTURY ECONOMY





WHAT ENERGY INNOVATION MEANS FOR MICHIGAN







- \$89.6 MILLION Advanced Research Projects Agency-Energy grants since FY2009
- AWARDS DOE Small Business Innovation Research (SBIR) since 2012

#14 1,200 JOBS SUPPORTED

MILLION CONTRIBUTED TO GDP

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

BUSINESS SPOTLIGHT

FLASH STEELWORKS (WASHINGTON, MI) | FlashSteelWorks.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.