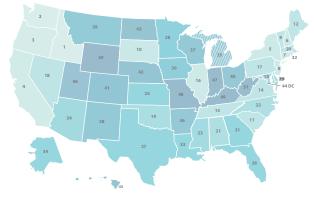
HOW DOES MICHIGAN STACK UP ON CLEAN ENERGY?



DATA AS OF 2019



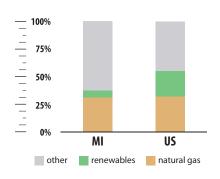


CO₂ EMISSIONS RATE

0.9 tC02/MWh

0.51 tCO₂/MWh







CLEAN ENERGY JOBS



127,821 (2019)



COVID-19 job losses totaled at least 23,871 March-August 2020 (cumulative).



CLEAN ENERGY RANKINGS

ENERGY EFFICIENCY SCORE = 28.5

30% GENERATION FROM NATURAL GAS

7% GENERATION FROM RENEWABLES







TRICITY CAPACITY

237 MW

(2019)



3,134 MW

CUMULATIVE







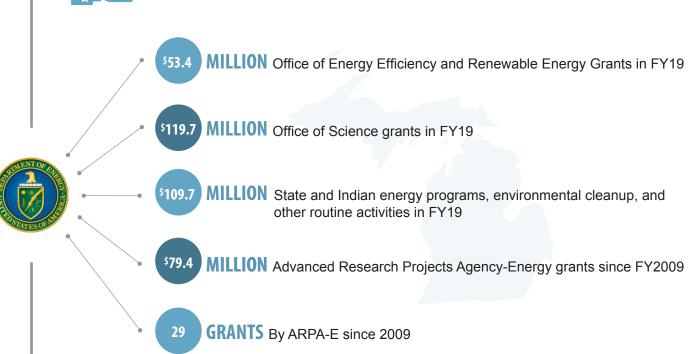
DATA: COLOR SHADING ON ALL INFOGRAPHICS INDICATES PERCENTILE AMONG 50 U.S. STATES AND THE DISTRICT OF COLUMBIA. CLEAN ENERGY INDUSTRIES INCLUDED ARE ENERGY EFFICIENCY, RENEWABLE ENERGY, NATURAL GAS, STORAGE, AND ADVANCED GRID TECHNOLOGIES. SOURCES: BLOOMBERG NEW ENERGY FINANCE, BW RESEARCH, ENERGY INFORMATION 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 2019 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) | www.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.