

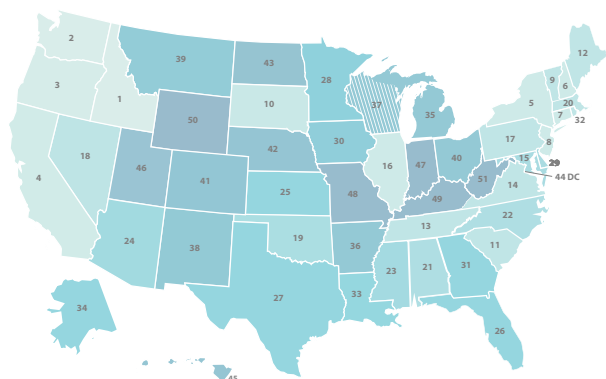
# HOW DOES WISCONSIN STACK UP ON CLEAN ENERGY?



DATA AS OF 2019

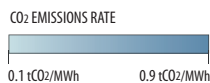


## LOWEST CO<sub>2</sub> EMISSIONS RATE

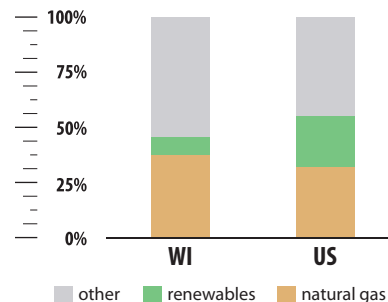


# #37

0.57 tCO<sub>2</sub>/MWh



## ELECTRICITY SOURCES



## CLEAN ENERGY JOBS

# #18

78,592 (2019)



COVID-19 job losses totaled at least 8,672 March-August 2020 (cumulative).



## CLEAN ENERGY RANKINGS

# #25

ENERGY EFFICIENCY SCORE = 16



# #24

33% GENERATION FROM NATURAL GAS



# #32

8% GENERATION FROM RENEWABLES



## RENEWABLE ELECTRICITY CAPACITY

# #40

21 MW (2019)

NEW BUILD



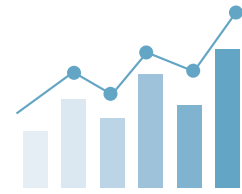
# #36

1,763 MW

CUMULATIVE



# ENERGY INNOVATION IN A 21<sup>ST</sup> CENTURY ECONOMY



## WHAT ENERGY INNOVATION MEANS FOR WISCONSIN



**\$19.5 MILLION** Office of Energy Efficiency and Renewable Energy Grants in FY19

**\$53.6 MILLION** Office of Science grants in FY19

**\$45.9 MILLION** State and Indian energy programs, environmental cleanup, and other routine activities in FY19

**\$25.2 MILLION** Advanced Research Projects Agency-Energy grants since FY2009

**15 GRANTS** By ARPA-E since 2009

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

**#12** 1,690 JOBS SUPPORTED

**#12** \$163 MILLION CONTRIBUTED TO GDP

## BUSINESS SPOTLIGHT

VIRENT INC (MADISON, WI) | [www.Virent.com](http://www.Virent.com)



With support from the Department of Energy, Virent has developed novel solutions for converting a variety of bio-based sugar feedstocks into products molecularly identical to those made from petroleum. Virent's BioForming® technology is now at commercial scale, producing a range of biofuels and chemicals.