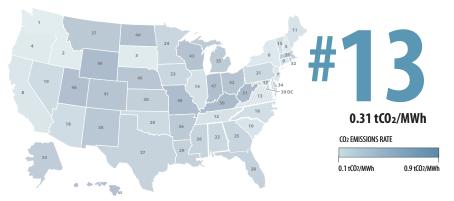
HOW DOES VIRGINIA STACK UP ON CLEAN ENERGY?

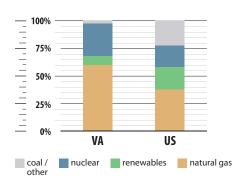


DATA AS OF 2021











CLEAN ENERGY JOBS



99,405 (2021)



Growth/recovery since 2020 totaled 3,500 jobs (3.6%).



CLEAN ENERGY RANKINGS

#25

ENERGY EFFICIENCY
SCORE = 18

#9

61% GENERATION FROM NATURAL GAS

#41

7% GENERATION FROM RENEWABLES







RENEWABLE ELECTRICITY CAPACITY

#7

1,202 MW (2021) **NEW BUILD**



#21

4,718 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).

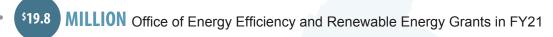
ENERGY INNOVATION IN A 21st CENTURY ECONOMY





WHAT ENERGY INNOVATION MEANS FOR VIRGINIA







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

#26 460 JOBS SUPPORTED

#24 53 MILLION CONTRIBUTED TO GDP

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

BUSINESS SPOTLIGHT

FEND INCORPORATED (ARLINGTON, VA) | Fend.tech



Fend protects energy infrastructure and industrial control systems from cyberattack using hardware that provides real-time information to operators while providing no physical way for hackers to breach a system. Fend has received funding from the Department of Energy's Solar Energy Technologies Office on a project to transition this technology into the energy market.