HOW DOES CALIFORNIA STACK UP ON CLEAN ENERGY?



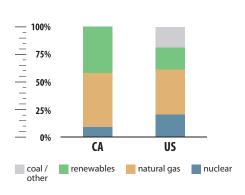




0.22 tCO₂/MWh
CO₂ EMISSIONS RATE

0.1 tCO₂/MWh
0.9 tCO₂/MWh







CLEAN ENERGY JOBS



491,999 (2020)



COVID-19 job losses totaled at least 71,615 March-December 2020 (cumulative).



CLEAN ENERGY RANKINGS

#1

ENERGY EFFICIENCY
SCORE = 43

#16

48% GENERATION FROM NATURAL GAS

#10

43% GENERATION FROM RENEWABLES







RENEWABLE ELECTRICITY CAPACITY

#2

2396 MW (2020) NEW BUILD



#1 47.347 MW

CUMULATIVE







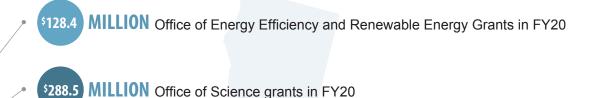
DATA: COLOR SHADING ON ALL INFOGRAPHICS INDICATES PERCENTILE AMONG 50 U.S. STATES AND THE DISTRICT OF COLUMBIA. CLEAN ENERGY INDUSTRIES INCLUDED ARE ENERGY EFFICIENCY, RENEWABLE ENERGY, NATURAL GAS, STORAGE, AND ADVANCED GRID TECHNOLOGIES. SOURCES: BLOOMBERG NEW ENERGY FINANCE, BW RESEARCH, ENERGY INFORMATION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





- \$3.37 BILLION State and Indian energy programs, environmental cleanup, and other routine activities in FY20
- \$522.4 MILLION Advanced Research Projects Agency-Energy grants since FY2009
- **202 GRANTS** By ARPA-E since 2009

#1 23,520 JOBS SUPPORTED

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

#1 (3.5) BILLION CONTRIBUTED TO GDP

BUSINESS SPOTLIGHT

CAPSTONE TURBINE CORPORATION (VAN NUYS, CA) | www.CapstoneTurbine.com



Capstone Turbine Corporation is a microturbine CHP manufacturer that has been awarded \$13M+ in Department of Energy funding to help develop its highly efficient and resilient combined heat and power (CHP) and microgrid solutions, which generate heat and electricity onsite from a single fuel source (usually natural gas).