

Good for the Economy.
Good for the Environment.

Clean Energy Workforce

**The National Governors' Association's (NGA)
Governors' Advisors Energy Policy Institute**

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Presented by-

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E- WHO?

E2 - national nonpartisan group of over 11,000 business leaders, investors and professionals from all sectors of the economy and across the US.

We advocate for policies that are good for the economy and good for the environment.

6th annual Clean Jobs America Report (and others).

<https://e2.org/reports>

- clean energy jobs broken down by
- Sector
- State
- Metro Statistical Area in America
- Non-metro rural jobs as well.

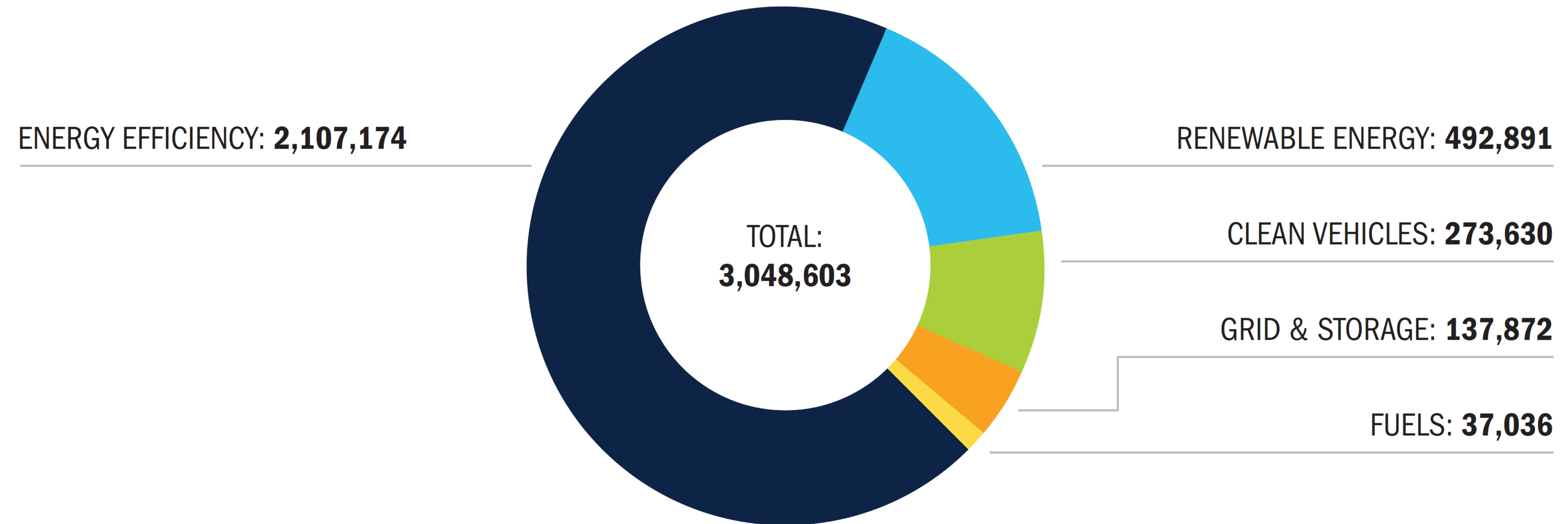
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CLEAN JOBS AMERICA 2021

AFTER HARD YEAR, PROMISE OF UNPARALLELED JOBS GROWTH



FIG. 1 // U.S. CLEAN ENERGY EMPLOYMENT by sector 2020



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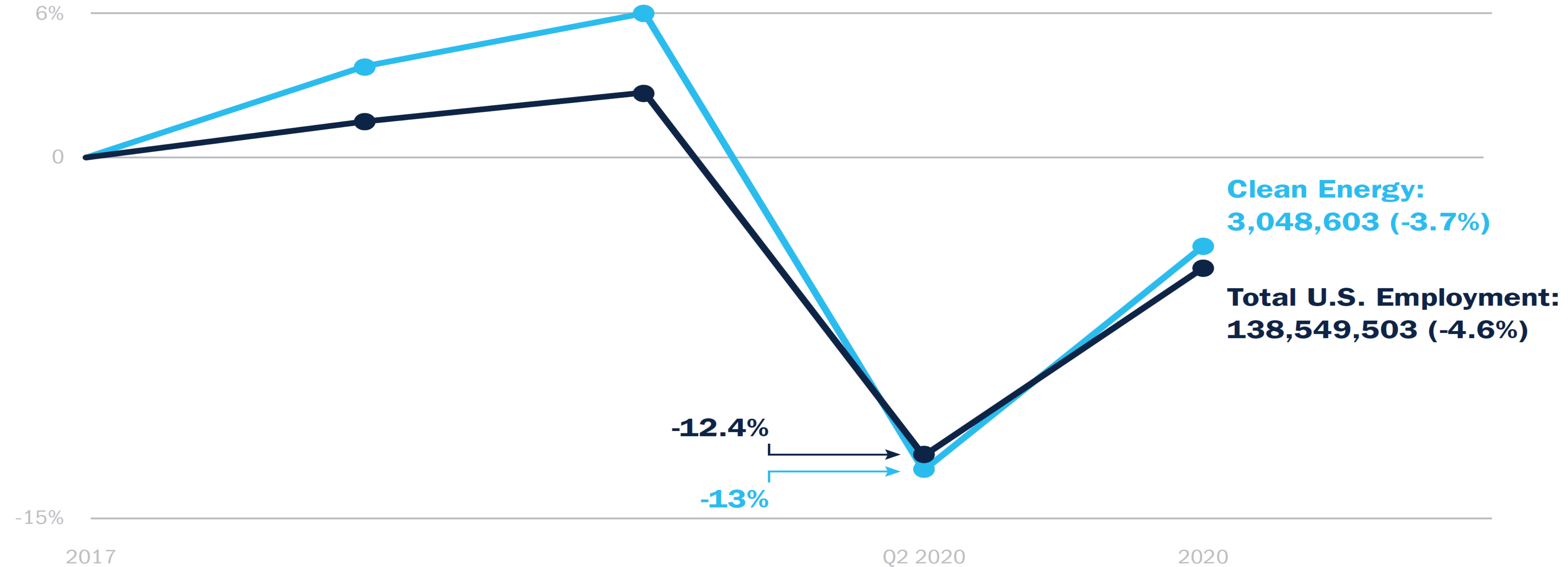
TABLE 3 // U.S. EMPLOYMENT by comparable occupations 2020⁸

OCCUPATION	2020 Employment	2019 Employment	2018 Employment	2017 Employment	2017-2019 Growth
Retail Salespersons	3,659,670	4,317,950	4,448,120	4,442,090	-2.79%
Clean Energy Sectors*	3,048,603	3,355,419	3,284,600	3,165,050	6.01%
Registered Nurses	2,986,500	2,982,280	2,951,960	2,906,840	2.60%
Customer Service Representatives	2,833,250	2,919,230	2,871,400	2,767,790	5.47%
Commercial Banking	2,065,527	2,063,270	2,067,089	2,076,128	-2.79%
Elementary and Middle School Teachers	1,976,050	2,064,680	2,032,880	2,043,520	1.04%
Waiters and Waitresses	1,944,240	2,579,020	2,582,410	2,584,220	-0.20%
Heavy and Tractor-Trailer Truck Drivers	1,797,710	1,856,130	1,800,330	1,748,140	6.18%
Engineers	1,673,440	1,730,720	1,700,880	1,665,220	3.93%
Lawyers	658,120	657,170	642,750	628,370	4.58%

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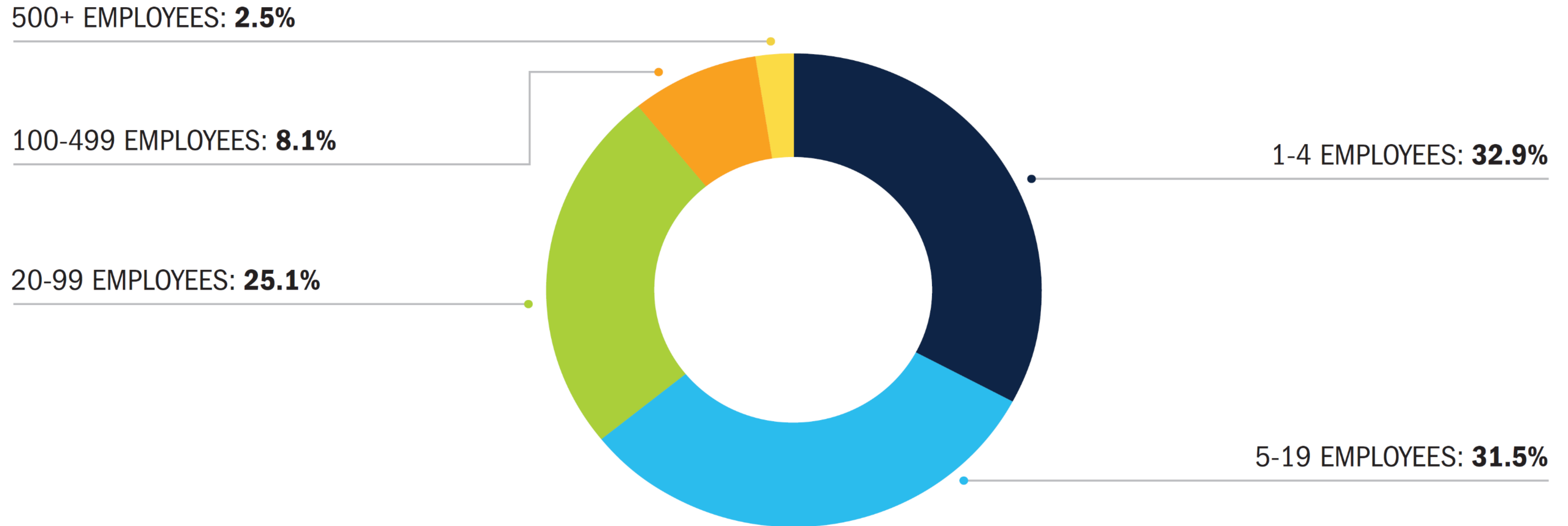
FIG. 9 // U.S. EMPLOYMENT GROWTH 2017–2020⁷



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FIG. 4 // U.S. CLEAN ENERGY EMPLOYMENT by establishment size 2020

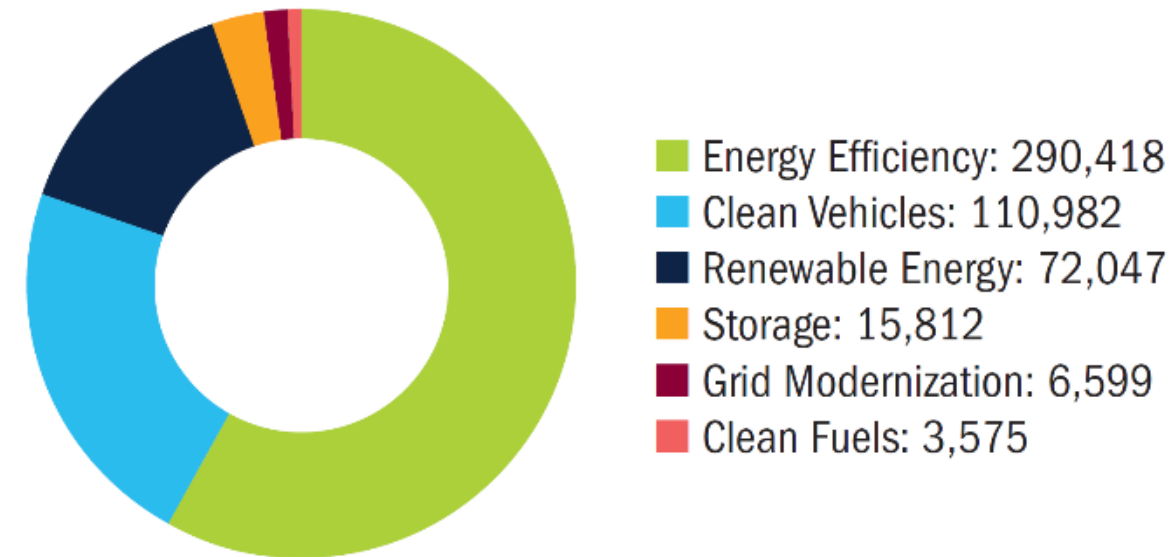


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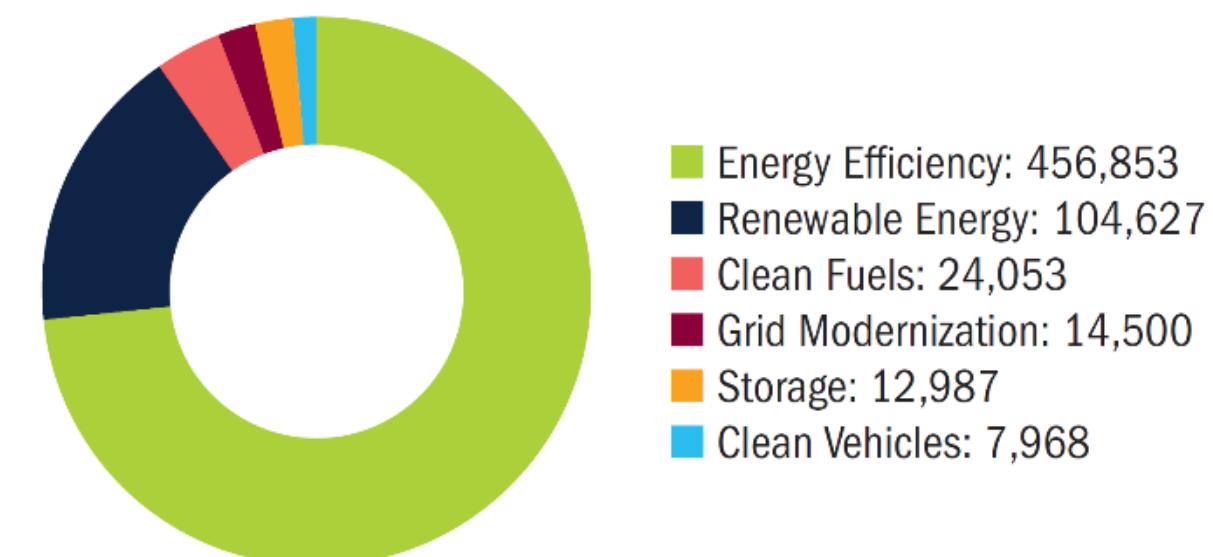


FIG. 11 // U.S. CLEAN ENERGY EMPLOYMENT by industry 2020

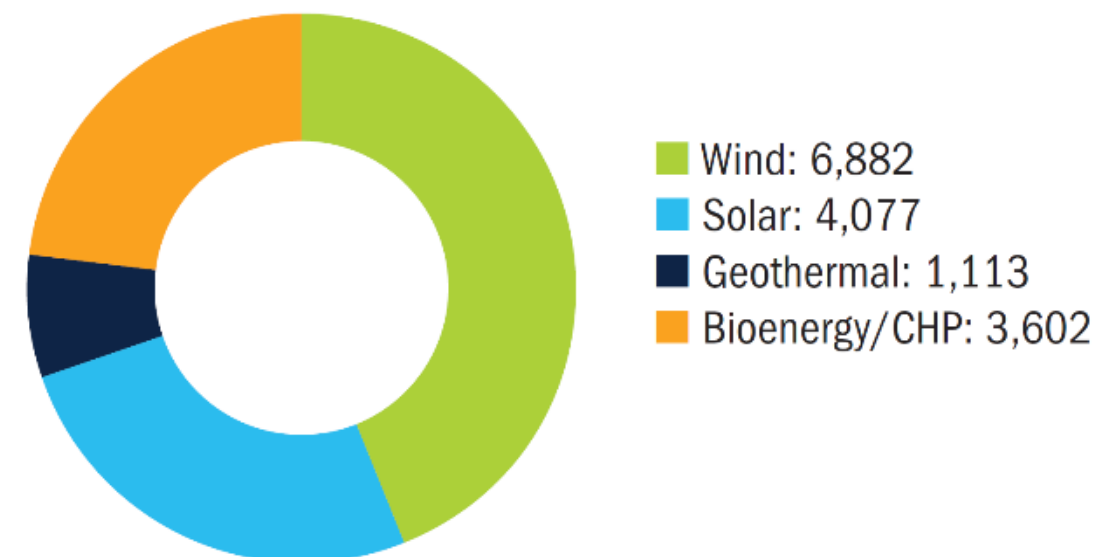
Manufacturing:
499,432 Total Jobs



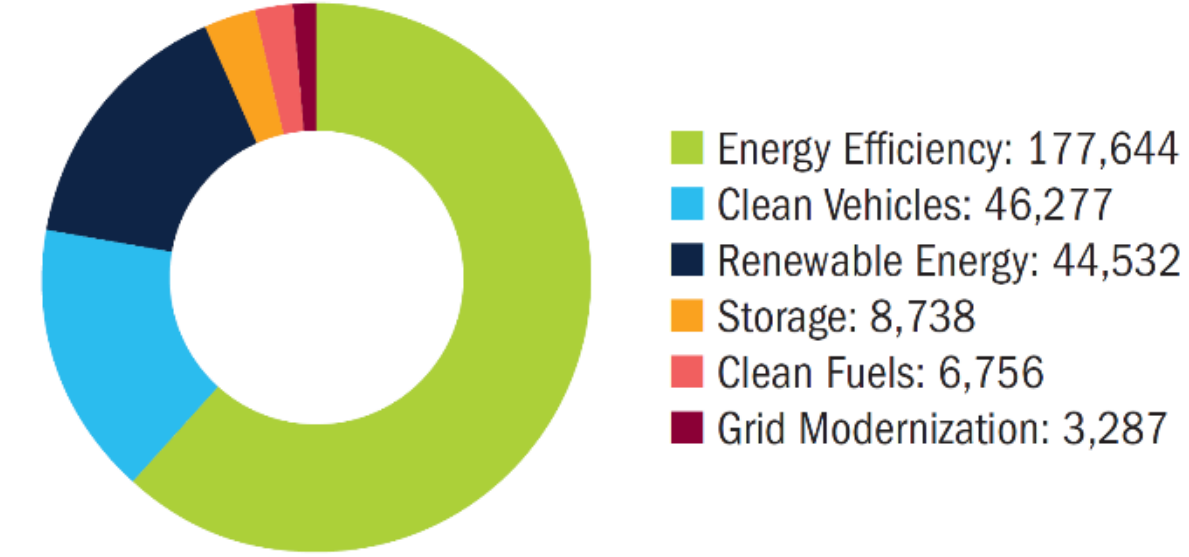
Professional & Business Services:
620,988 Total Jobs



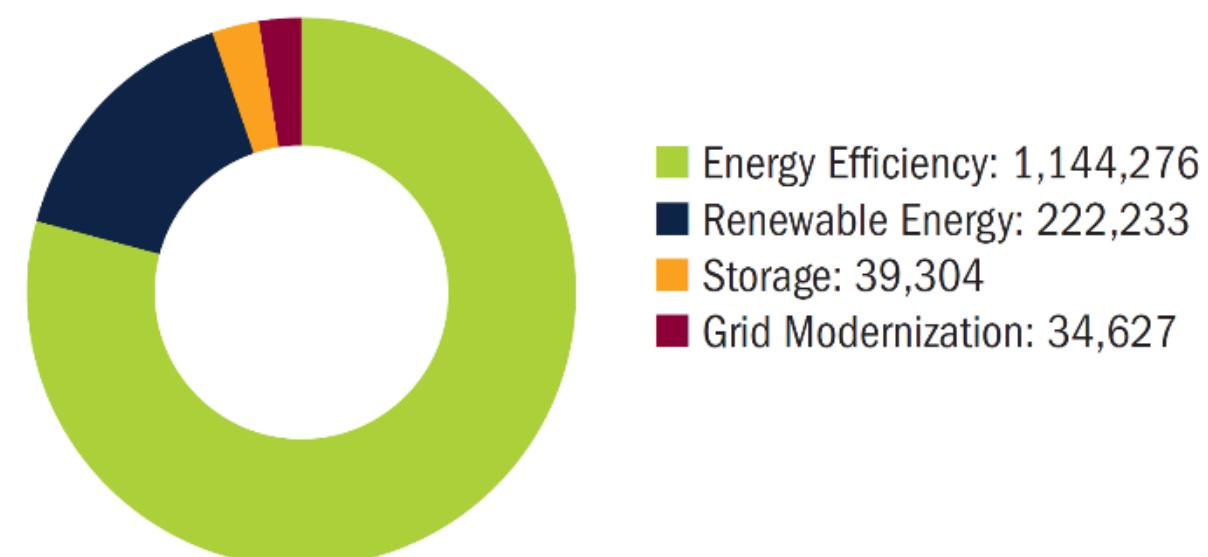
Utilities:
15,674 Total Jobs



Wholesale Trade & Distribution:
287,235 Total Jobs



Construction:
1,440,441 Total Jobs



Other Services
(Repair and Maintenance/Other):
182,257 Total Jobs

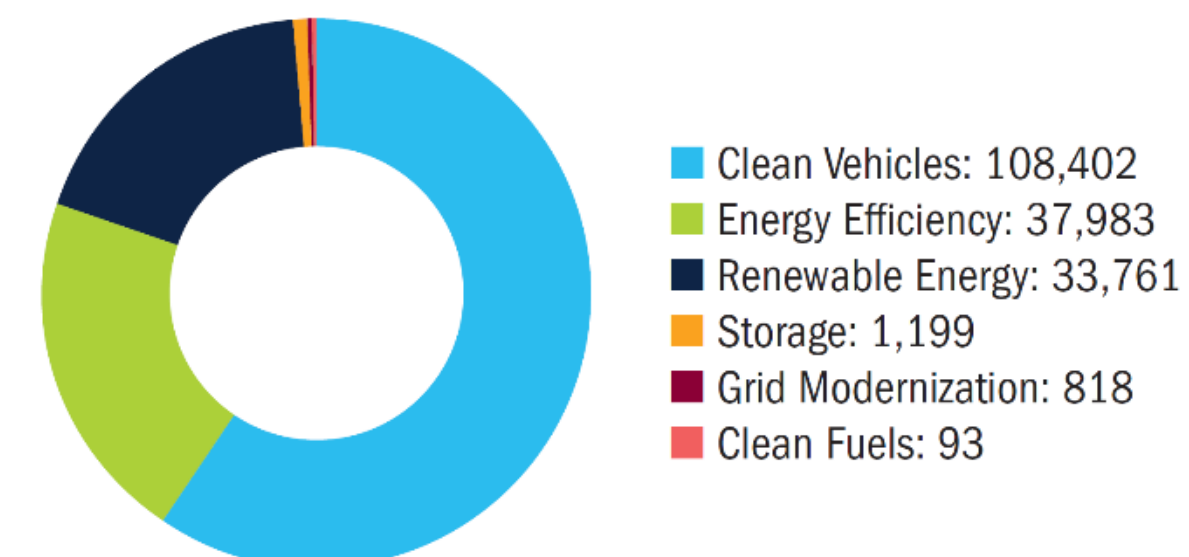
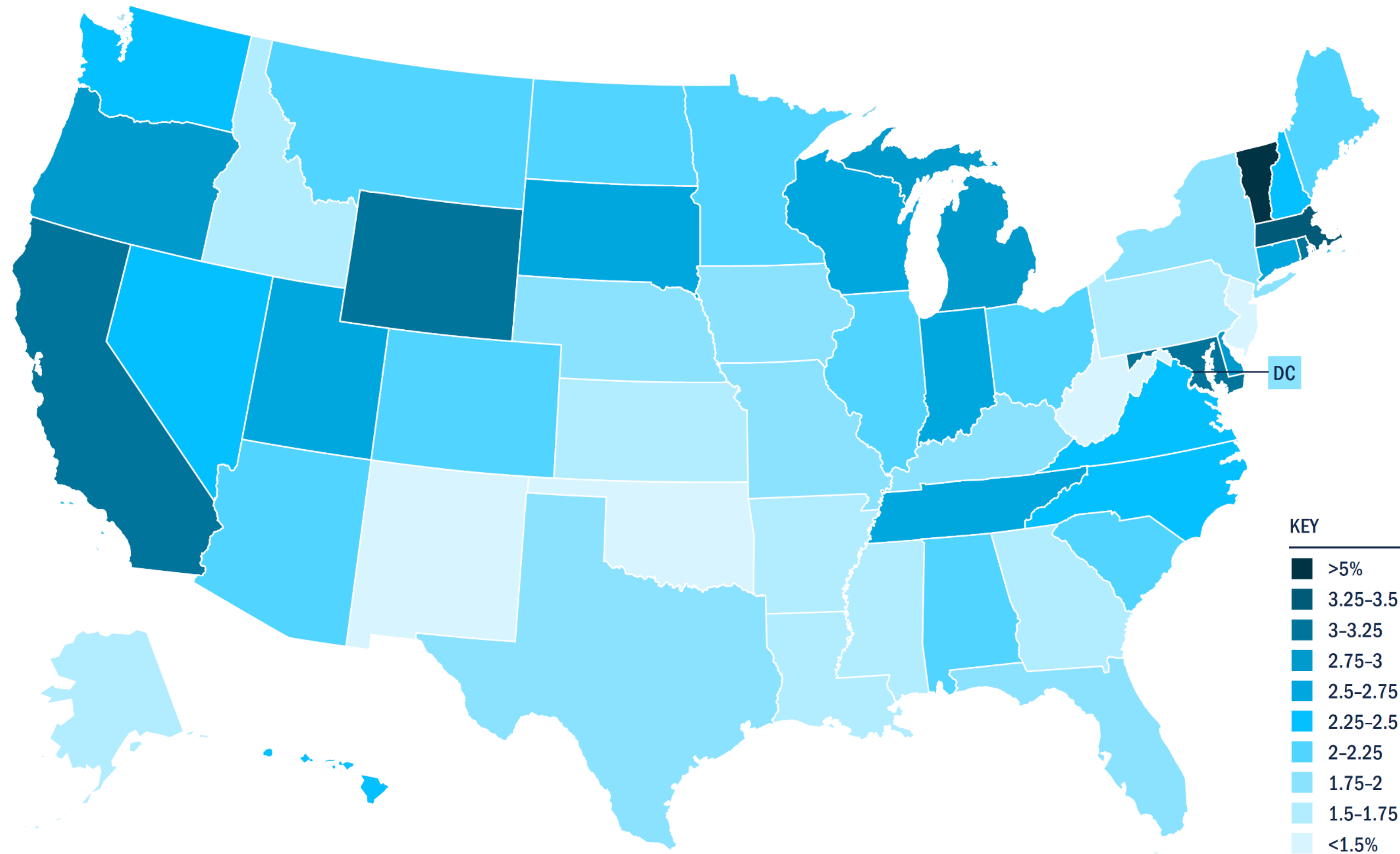


FIG. 12 // U.S. CLEAN ENERGY EMPLOYMENT
by share of total statewide employment 2017–2020¹⁰



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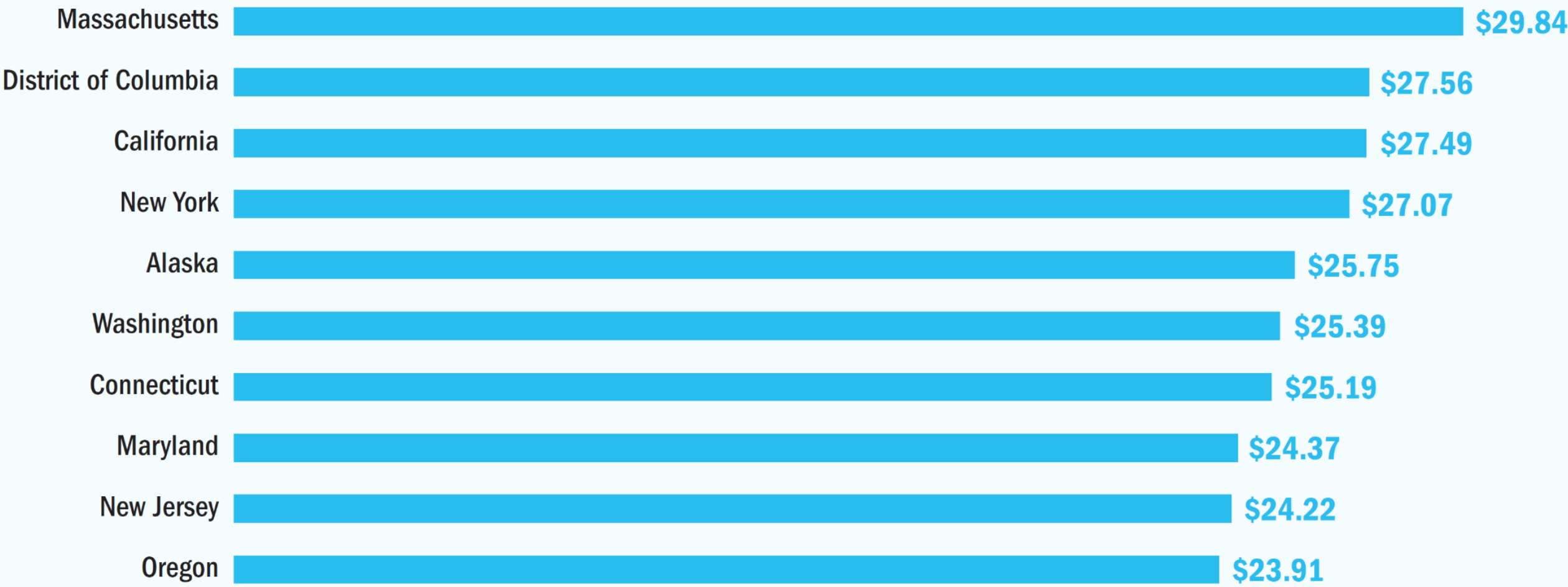


CLEAN ENERGY JOBS PAY 25% MORE THAN NATIONAL MEDIAN WAGE

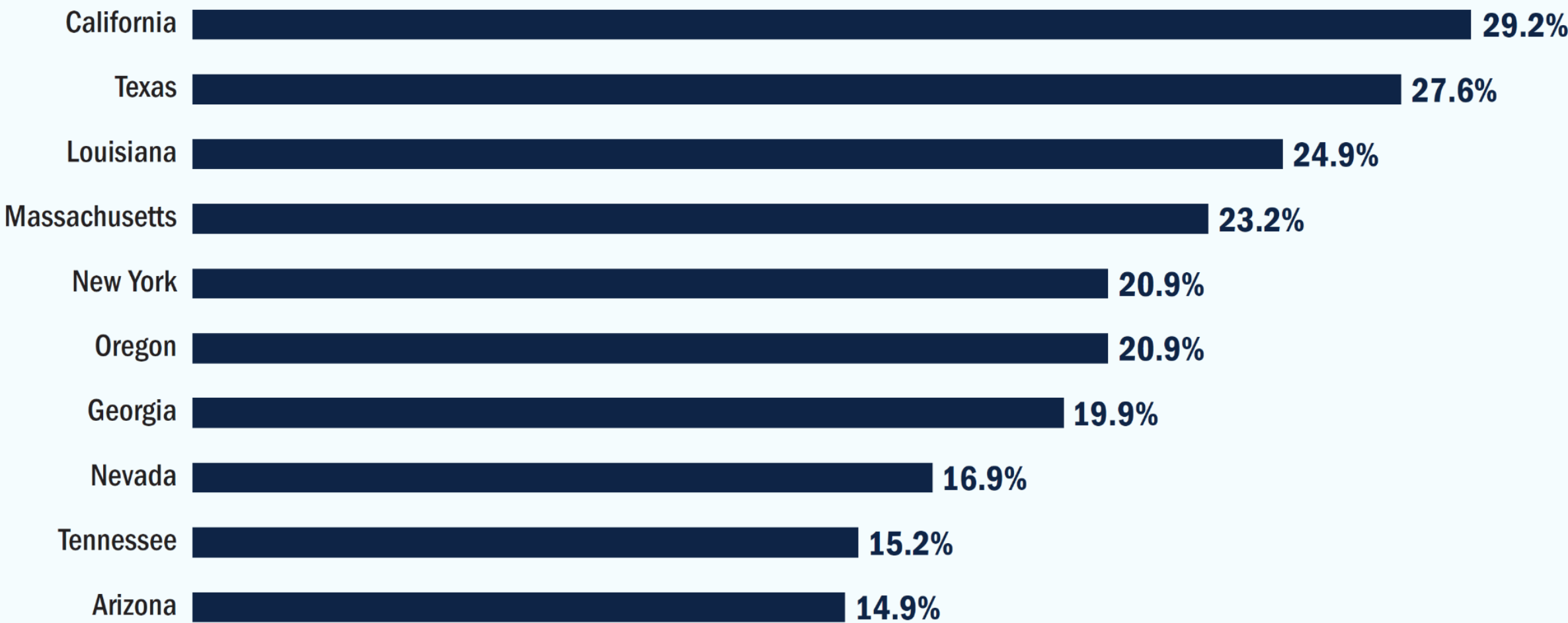
Clean Energy median wage = \$23.87

National median wage = \$19.14

TOP STATES BY MEDIAN CLEAN ENERGY WAGE



TOP STATES BY CLEAN ENERGY WAGE PERCENTAGE ABOVE STATEWIDE MEDIAN WAGE

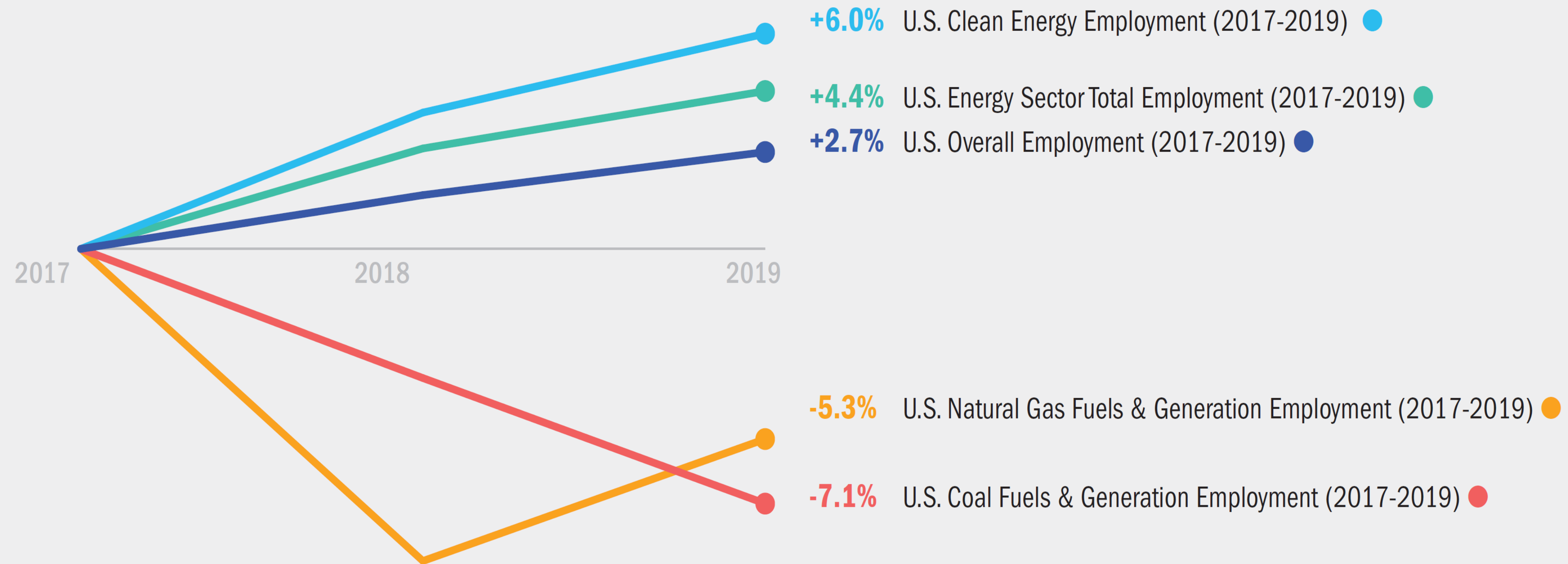


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Fossil Fuels Jobs and Clean Energy Jobs

FIGURE 3: JOB GROWTH RATES BY ENERGY SECTOR, 2017-2019



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Clean Energy Challenges

- **Diversity** -- E2 will be coming out with **Diversity report soon** and that is something clean energy need to tackle.
- **Workforce Training:** And For years pre-COVID and even now with 300,000 jobs lost, when we survey clean energy businesses, they consistently say that finding skilled labor is a major challenge
- **Incentive Stability:** Instability in incentives impacts financing, manufacturing, and demand generally
- **Global Competitiveness** --
Clean Energy Investment is flowing to Countries with high targets and incentives. Europe and China are eating our lunch. We want more domestic manufacturing and ultimately export of US clean energy technologies into what is estimated to be 27trillion dollar global market (based on existing global commitment)Just a few critical federal policies we are seeing in play include

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Key Federal Policies for Clean Energy



- **Clean Energy Tax Credits** -- Longer incentives and for Purchasing and Manufacturing Incentives for Efficiency, Renewables, Grid and Storage, Vehicles etc
- **Workforce training** -- Including stipends for trainees
- **National Clean Energy Accelerator** (National Green Bank) -- to support state green banks and local financing solutions in every state and to address equity
- **A Clean Electricity Std** – for path to 100% clean electricity by 2035.
- **Funding for R&D and deployment programs at DOE.**

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THANK YOU

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ADDITIONAL RESOURCES/DETAILS: www.E2.org/Reports

- Clean Jobs America 2021 (Jobs Numbers)— (regional reports and federal district data coming)
- Clean Jobs Better Jobs (Wage Data)
- Build Back Better Faster (Sample Jobs Projection with \$100B Federal investment)
- Healthy Soils and the Climate Connection: A Path to Economic Recovery on America's (Rural Opportunities)
- COMING SOON: Diversity in Clean Energy Report (Aug 2021)

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