

Maryland

Energy Efficiency Jobs in America

Oct 2020

63,536*

Dec 2019

71,337

Clean energy workers are a huge and important part of America's workforce. We know from our country's last economic crisis that clean energy can lead the way to recovery.

Hundreds of thousands of workers are ready to return to work to build a better, cleaner, more equitable economy for tomorrow. With innovative policies we could get these workers back on the job today. Congress can start by spurring investments in energy efficiency (EE) and help the economy recover and grow for years to come.

COVID-19 Impacts on the EE Job Sector

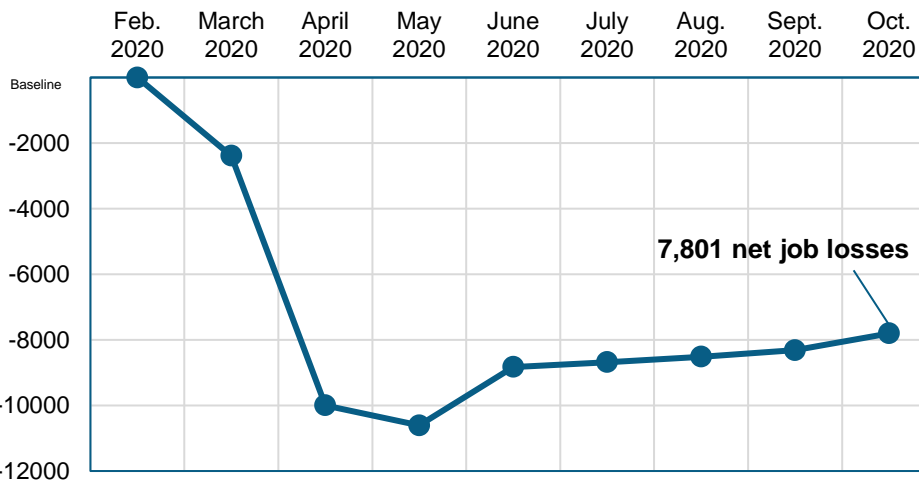
The 2020 pandemic shocked our nation's labor market with massive job losses. Maryland's energy efficiency industry lost as many as 7,801 jobs since its onset, a 10.9% decrease compared to total jobs in December 2019—wiping out the last 3 years of gains.

This disruption continues to ripple throughout the supply chain, slowing or halting the manufacture of efficiency equipment and components including insulation; windows; heating, ventilation, and air conditioning (HVAC) equipment; and other building systems technologies.

The energy efficiency workforce has the skills and expertise to meet this moment. Historically the Maryland EE workforce grew steadily, gaining 6.4% since 2016.**

As the U.S. advances our economic recovery, policy solutions must create conditions to return to work laid-off/furloughed EE workers and to create a pathway for new workers to join this vital sector.

EE Job Losses in Maryland due to COVID-19



*Source: [Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, March 2020-October 2020](#).
**first available sector-specific data



Presented by:

E4 THE FUTURE



What are EE Jobs?

Jobs that deliver goods and services that lower energy use by improving technologies, appliances, buildings, and energy systems.

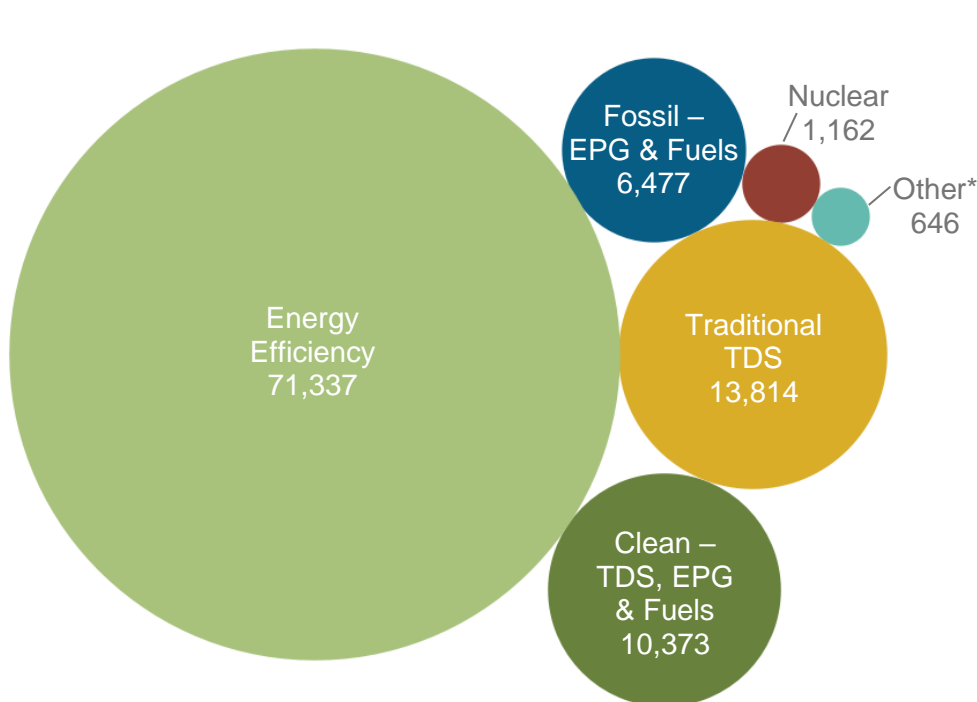
What type of work are EE workers doing?

- Manufacture and install high efficiency systems, controls, windows, insulation and ENERGY STAR-certified appliances and products in existing and new homes, commercial & industrial buildings
- Design and construct high performance buildings such as those earning LEED certification
- Upgrade and repair heating, air conditioning and ventilation (HVAC) and water heating equipment
- Educate property owners and managers on building improvements to unlock savings for businesses, homeowners, schools, states, municipalities, military bases and more
- Analyze building energy data using software to maximize savings through targeted performance improvements and behavioral changes
- Review and approve loans to finance energy savings performance contracts to improve the comfort, health and operational costs of buildings

All EE jobs counted in this report enhance energy efficiency. The above descriptions provide illustrative examples of what some EE workers do, and should not be considered an exhaustive list of all efficiency work.

How does EE compare in Maryland?

Energy efficiency is the largest energy sector in Maryland.

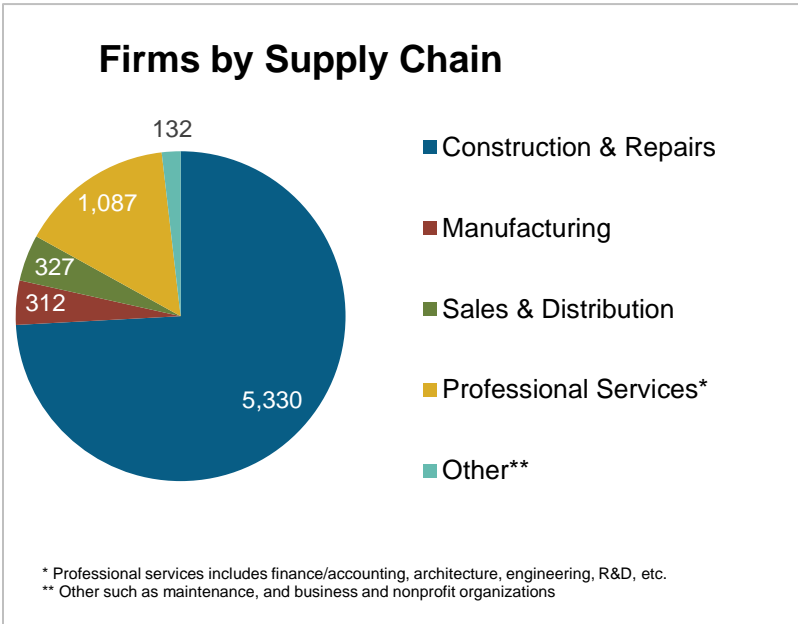
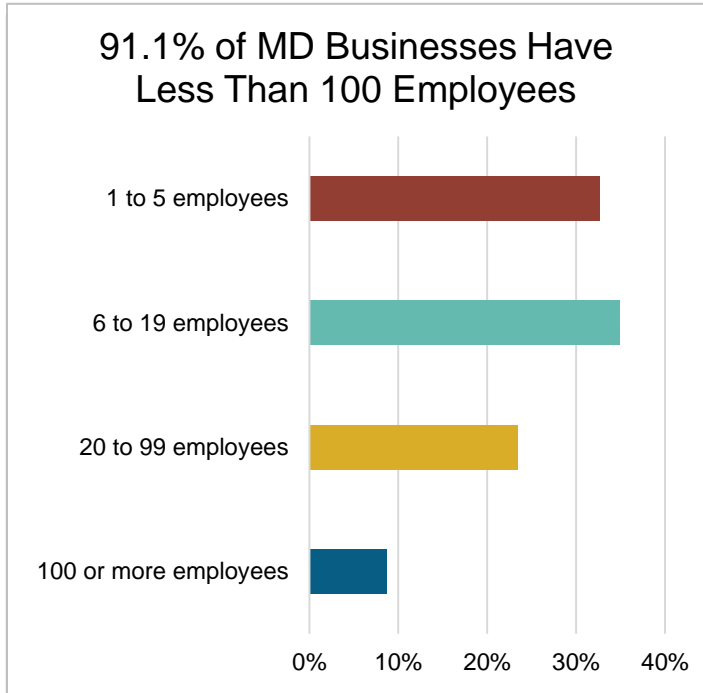



Energy efficiency in Maryland has seen consistent, reliable job growth – 6.4 percent since 2016.

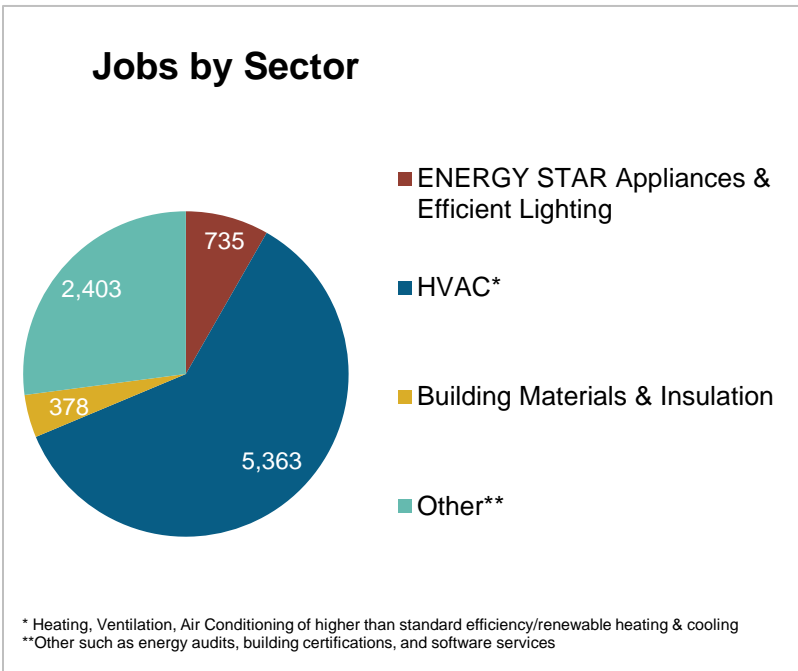
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

What do the EE businesses look like in Maryland?

EE Sector =
7,188
 Businesses in MD
 (Dec. 2019)
 ↑ **80** over 2018

7.6%
 of Maryland
 residents employed
 in EE are **Veterans**

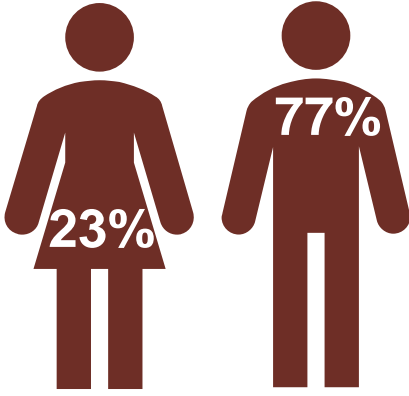
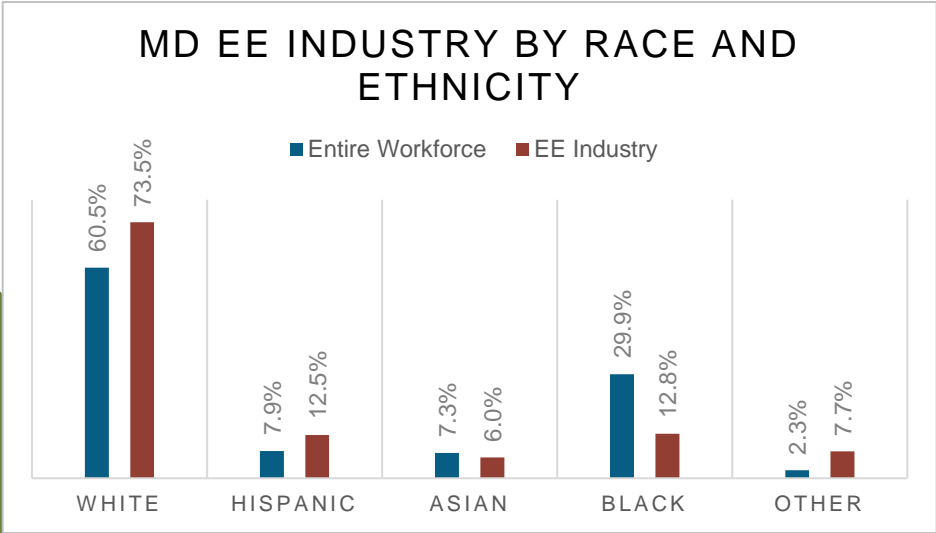



**Energy Efficiency
 Construction Workers
 Make Up 31% of MD
 Construction Workers**

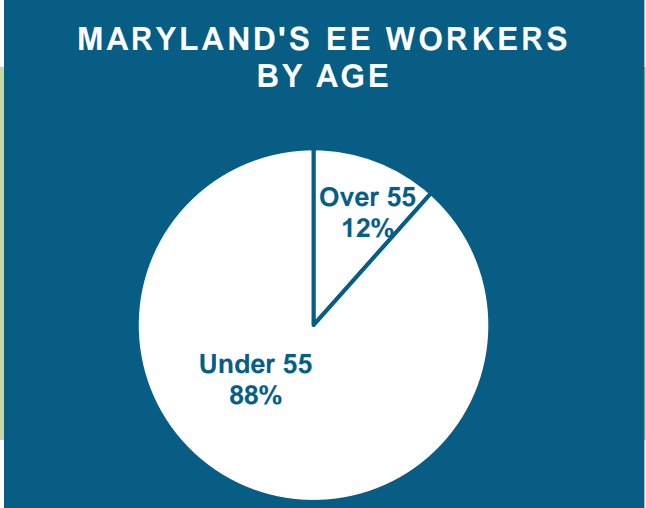
How is EE Doing regarding Diversity in Maryland?

Demographic data is crucial for benchmarks and to measure progress in the energy efficiency industry. In striving for more diversity in EE jobs, we can create a stronger and more inclusive industry. Promoting diversity in hiring is key to maintaining a future workforce of talented professionals and ensuring all Maryland communities are represented in the EE sector.

The EE industry needs to do more to prioritize minorities and women for training and support that will enable them to obtain and/or retain employment at EE businesses.



Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Non-binary gender data is missing from this document due to this limitation.



A significant portion of the Maryland efficiency workforce is in the “55+” category. 12% are likely to retire within the next ten years, providing career opportunities for current and future professionals.

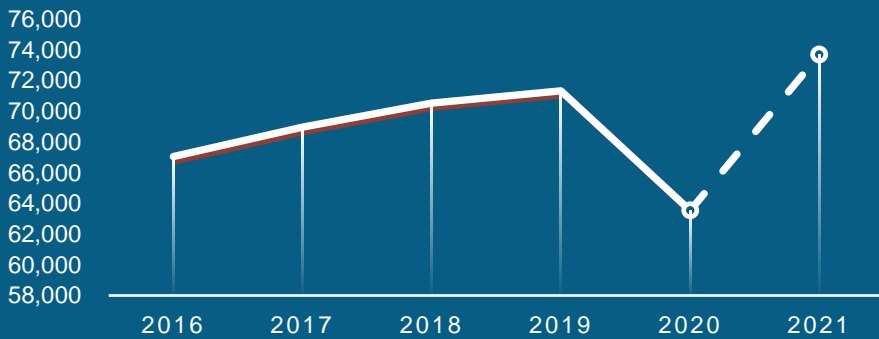
Why invest in EE?

Economic benefits of a federal energy efficiency stimulus package include high-quality jobs for U.S. residents, worker income, boosts to local, state, and federal tax revenues, contributions to Gross Domestic Product (GDP), and energy cost savings.

All these benefits ultimately translate to greater cash flow and stronger local economies. Energy efficiency jobs are proven to be sustainable wage positions that are accessible to all localities nationwide — regardless of geography or politics — providing new jobs that cannot be outsourced.

Updates to U.S. energy infrastructure are investments in the collective economic future of Americans; the creation of a more resilient energy system is vital to economic growth and security.

MARYLAND PROJECTED STIMULUS JOB IMPACTS



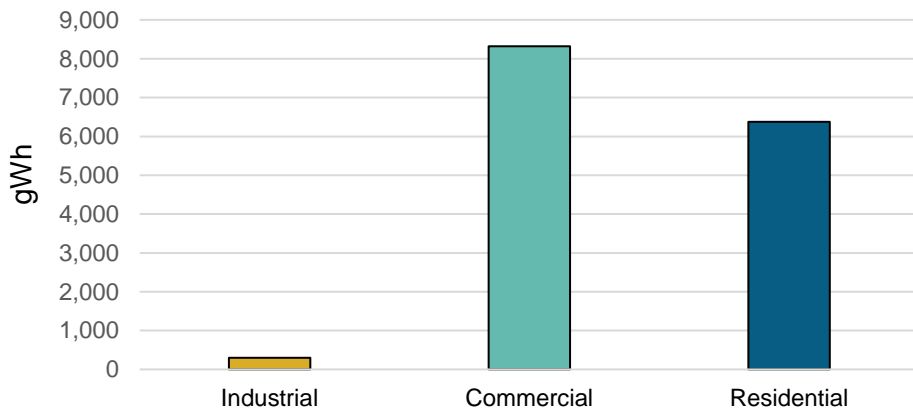
Source: [Build Back Better, Faster](#).

Modeling finds that federal investment would create **10,160 full-time direct, indirect, and induced MD jobs** that will last for at least five years: Over **50,800 job-years** total.

A stimulus of this level and the jobs it would create would also generate more than **\$805 million in GDP** each year for the next five years — resulting in **\$4.0 billion in economic activity**, more than 3.7 times the investment.

How much energy efficiency is untapped in your state?

Maryland Energy Efficiency Potential by Sector



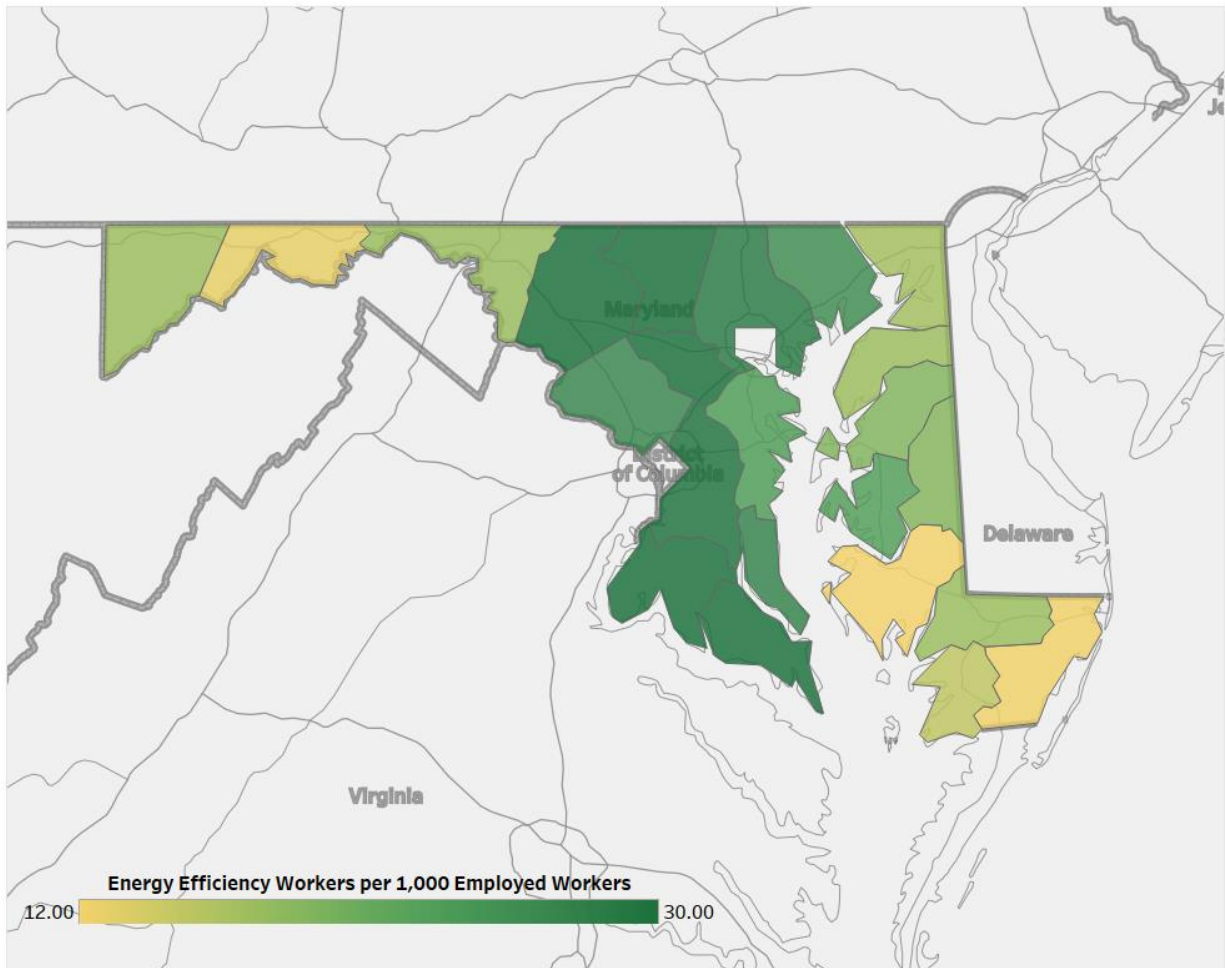
Source: [State and Local Planning for Energy \(SLOPE\) Platform](#).

Combined, this would displace the annual electricity consumption of **1,281,676 homes**.

Where are EE Jobs?

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	13,380	Baltimore-Towson	32,622
2	12,890	Cumberland	651
3	14,136	Hagerstown-Martinsburg	1,511
4	6,081	Philadelphia-Camden-Wilmington	2,065
5	4,882	Salisbury	1,233
6	12,622	Washington-Arlington-Alexandria	28,990
7	1,730	Rural	4,265
8	5,616		

Energy Efficiency Jobs by County



State Upper House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	2,171	15	4,270	29	760	43	263
2	619	16	3,722	30	2,862	44	<5
3	2,865	17	2,169	31	2,916	45	241
4	2,209	18	1,326	32	40	46	<5
5	1,613	19	188	33	362	47	127
6	2,102	20	1,485	34	592		
7	2,991	21	2,036	35	871		
8	986	22	2,025	36	1,740		
9	2,998	23	964	37	2,451		
10	1,995	24	716	38	1,011		
11	3,556	25	679	39	<5		
12	2,500	26	366	40	4,300		
13	1,421	27	1,048	41	<5		
14	2,231	28	1,387	42	164		

State House of Delegates

District	Jobs	District	Jobs	District	Jobs	District	Jobs
4	5,188	22	2,038	03B	15	37B	1,114
5	1,589	24	706	09A	79	38A	456
6	2,119	25	1,226	23A	195	38B	128
7	2,947	26	361	23B	201	38C	416
8	969	28	1,509	27A	79	42A	13
10	2,163	32	1,547	27B	419	42B	144
11	3,629	33	2,953	27C	489	47A	126
12	4,712	36	2,325	29A	267		
13	1,799	40	4,234	29B	459		
14	2,303	43	264	29C	27		
15	4,290	45	237	30A	345		
16	3,675	46	294	30B	257		
17	2,143	01A	980	31A	743		
18	1,341	01B	26	34A	583		
19	186	01C	1,143	35A	156		
20	1,669	02A	289	35B	110		
21	2,021	03A	314	37A	1,328		



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Data Source: Unless otherwise stated, all data are from the 2020 U.S. Energy and Employment Report, March 2020, by NASEO and EFI (see Appendix A, pages 201-206 for methodology details). This methodology -- adopted by the U.S. Dept. of Energy for its 2017 U.S. Energy and Employment Report, approved by the Office of Management and Budget and grounded on data collected by the U.S. Bureau of Labor Statistics -- provides the broadly accepted best accounting of all U.S. energy workers.