

Maryland

Energy Efficiency Jobs in America

June 2021*

65,493

Dec 2020

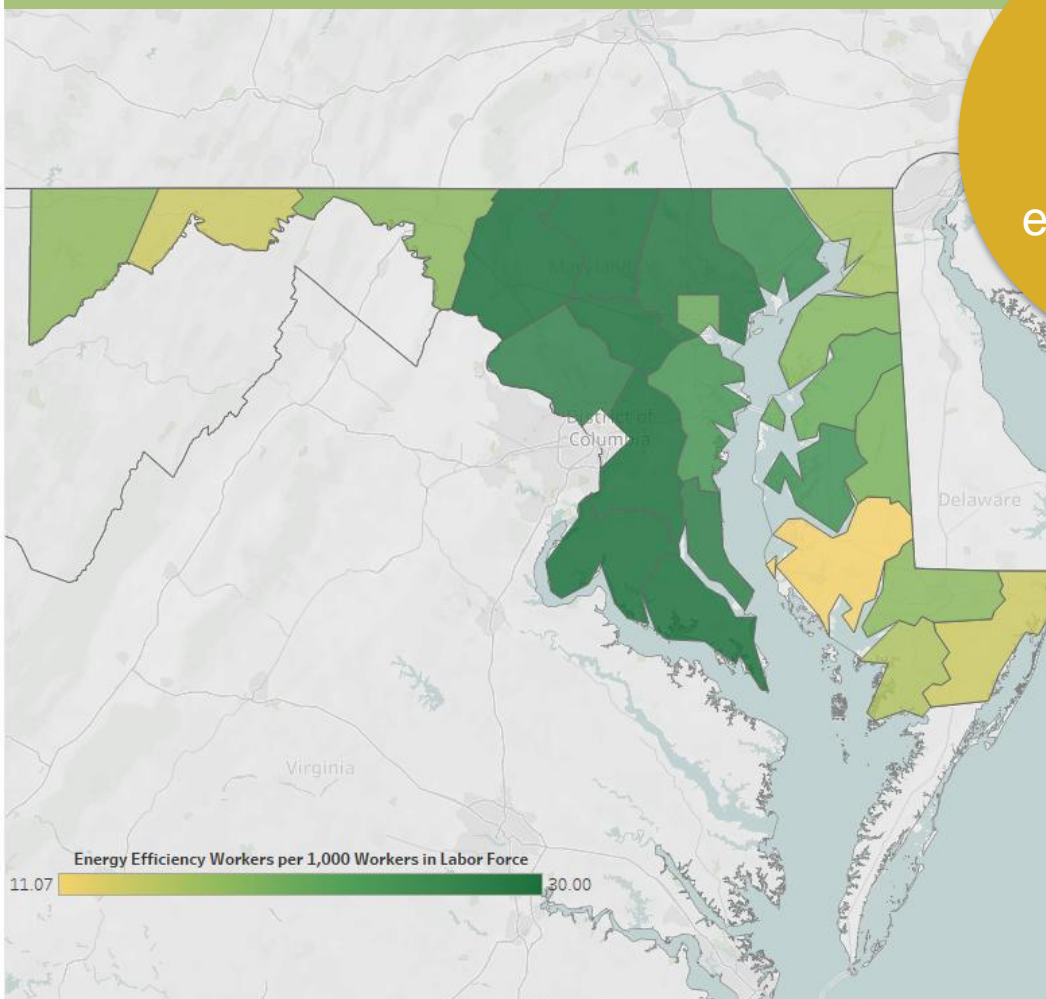
65,412

Energy efficiency (EE) workers are a crucial part of America's workforce. EE jobs are everywhere – in rural, urban, and suburban communities. In Maryland, there are EE jobs in every county.

Investments in EE are the best possible energy investment. Energy efficiency measures are a highly cost-effective way to improve the reliability of the electric grid, reduce emissions, and make other renewable energy resources, such as solar and wind, more valuable. Efficiency also saves households money while creating high-quality, local jobs that cannot be outsourced.

Energy Efficiency Jobs are Everywhere

EE Jobs by County



100%
of Maryland
counties have
energy efficiency
workers

~20,800
new EE construction
jobs to retrofit
Maryland homes by
2030



Number of full-time workers required for eight years 2022-2030 to improve 80% of MD residences for a clean energy future.

Source: E4TheFuture/BW Research retrofit analysis, July 2021

*Source: E4TheFuture/BW Research job analysis, July 2021

Presented by:

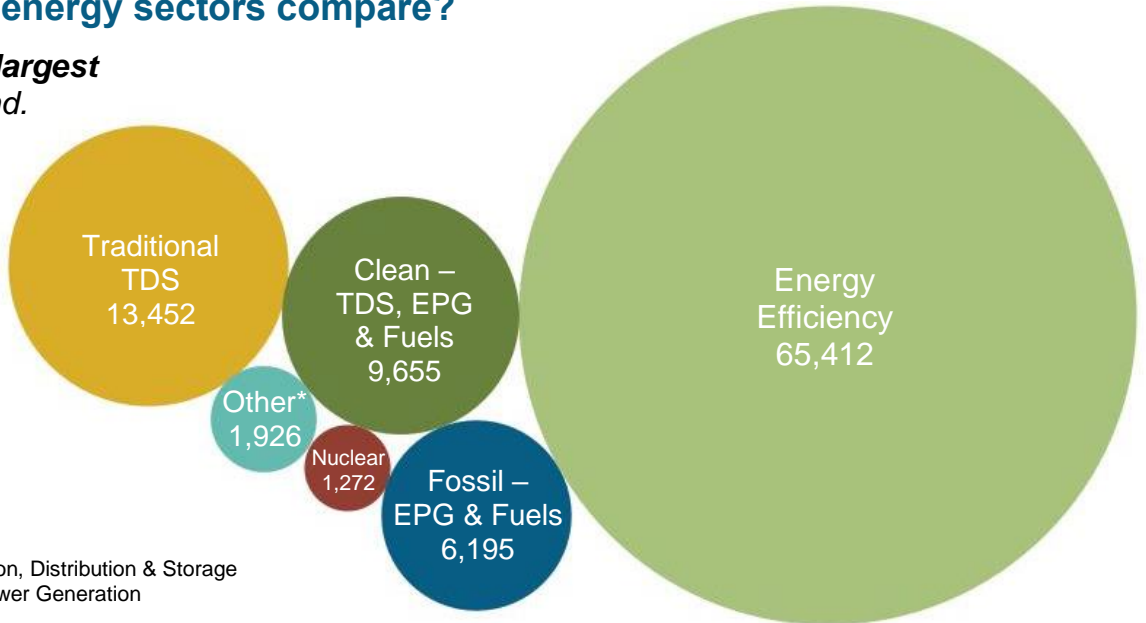


What are energy efficiency (EE) jobs?

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

How do Maryland's energy sectors compare?

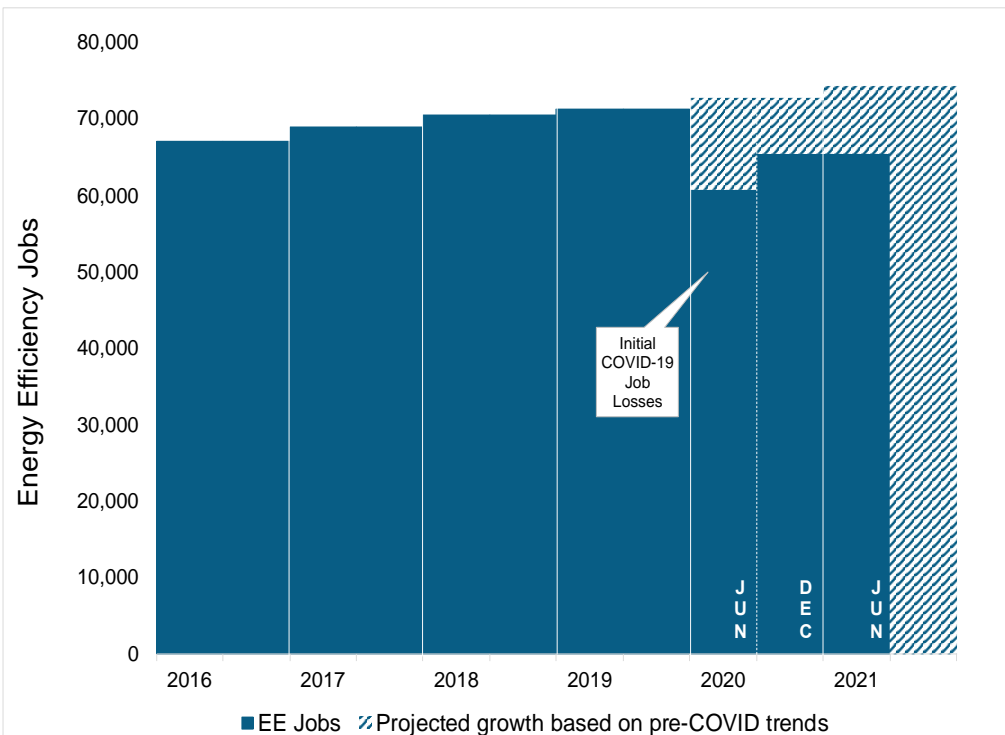
Energy Efficiency is the **largest** energy sector in Maryland.



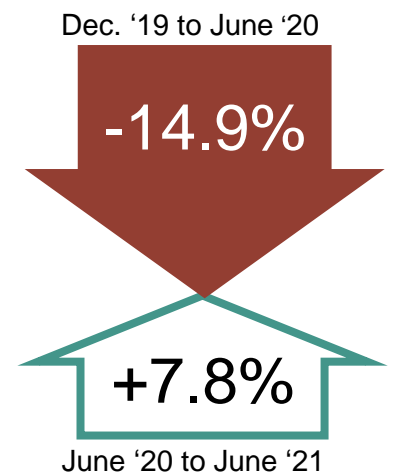
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?



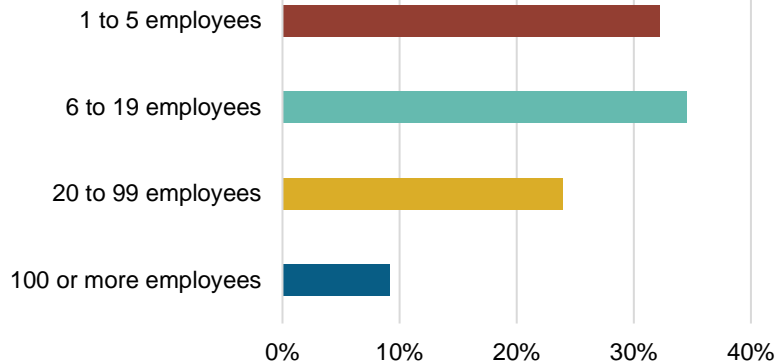
Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in Maryland?

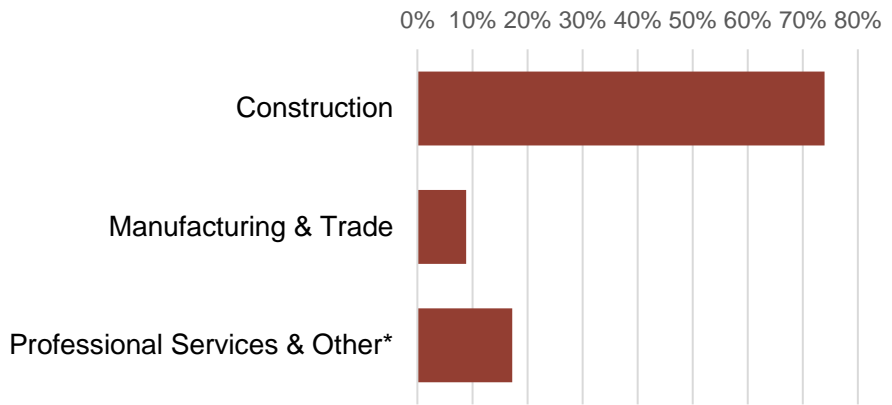
90.7% of MD EE Businesses Have Less Than 100 Employees



7,119
EE businesses in Maryland

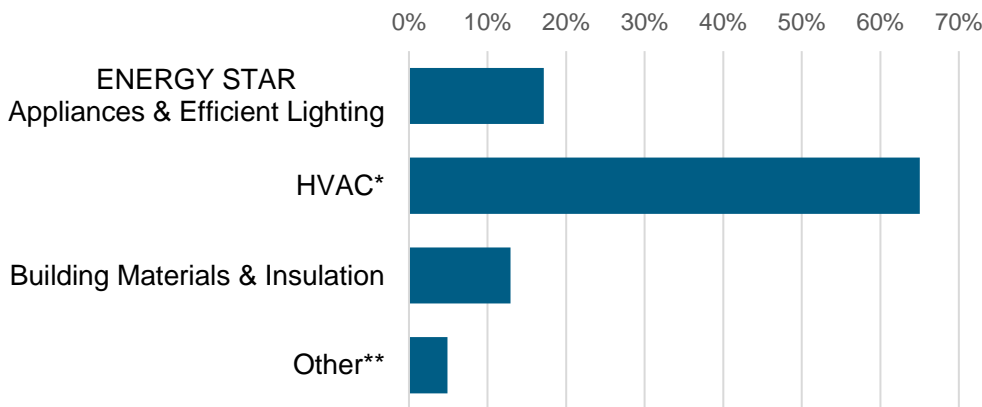
EE construction workers comprise **29%** of Maryland construction workers

What type of work do energy efficiency firms do?



*Professional services include finance/accounting, architecture, engineering, R&D, etc. and other includes maintenance, and business and nonprofit organizations.

What energy efficiency sectors employ the most workers?



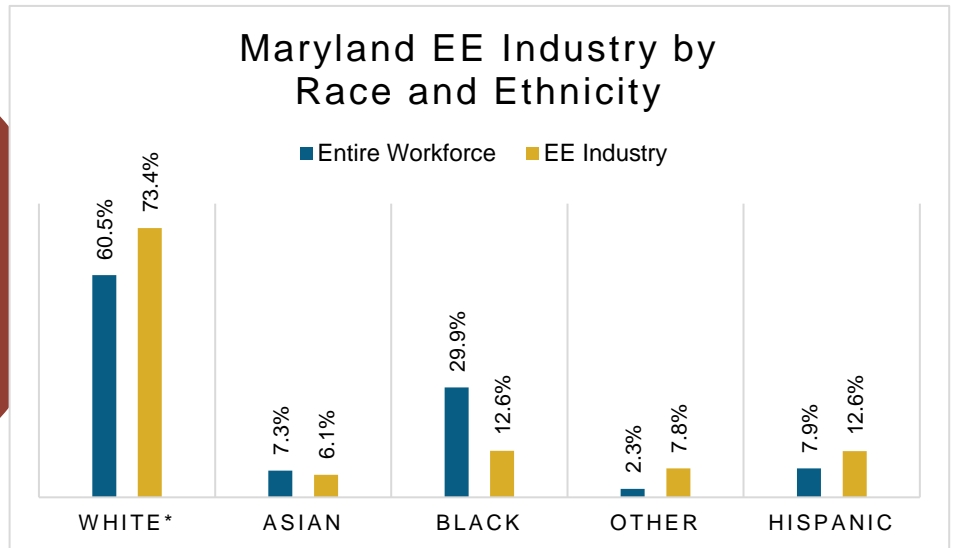
*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

8% of Maryland EE workers are Veterans

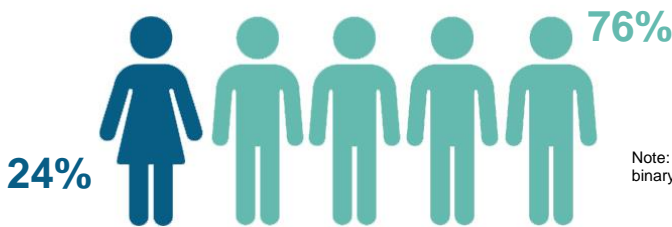
How is EE doing on diversity in Maryland?

Demographic data is crucial for benchmarks and to measure progress in the energy efficiency (EE) 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 enables access to employment at EE businesses.



*Includes non-Hispanic and Hispanic whites.




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.

Maryland's EE Potential

Decades of work, ready for Maryland's growing energy efficiency workforce.

Weatherization Assistance Program:


6,596* units weatherized in 2018, out of ~**200,000** total low-income households

1,839,365

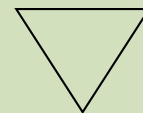
Maryland homes are due for energy tune-ups



(Non low-income families whose residences are 20+ years old)

Potential to **reduce** residential electricity consumption by

39%



*National Association for State community Services Programs (NASCS) [Weatherization Assistance Program Annual Funding Survey](#)
Source: E4TheFuture/BW Research retrofit analysis, July 2021, [U.S. Census Bureau QuickFacts](#) and [State and Local Planning for Energy \(SLOPE\) Platform](#)

Energy Efficiency Jobs by Location

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	12,269	Baltimore-Towson	29,912
2	11,819	Cumberland	597
3	12,962	Hagerstown-Martinsburg	1,385
4	5,576	Philadelphia-Camden-Wilmington	1,894
5	4,476	Salisbury	1,131
6	11,574	Washington-Arlington-Alexandria	26,582
7	1,586	Rural	3,911
8	5,150		

State Upper House										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	1,990		15	3,915		29	696		43	241
2	567		16	3,413		30	2,625		44	<5
3	2,627		17	1,989		31	2,674		45	221
4	2,025		18	1,216		32	37		46	<5
5	1,479		19	172		33	332		47	117
6	1,927		20	1,362		34	543			
7	2,743		21	1,867		35	799			
8	904		22	1,857		36	1,595			
9	2,749		23	884		37	2,248			
10	1,829		24	656		38	927			
11	3,261		25	623		39	<5			
12	2,292		26	336		40	3,942			
13	1,303		27	961		41	<5			
14	2,046		28	1,272		42	151			

State House of Delegates

District	Jobs	District	Jobs	District	Jobs	District	Jobs
4	4,757	22	1,869	03B	14	37B	1,021
5	1,457	24	648	09A	72	38A	418
6	1,943	25	1,124	23A	179	38B	117
7	2,702	26	331	23B	184	38C	382
8	888	28	1,384	27A	72	42A	12
10	1,983	32	1,419	27B	384	42B	132
11	3,328	33	2,707	27C	449	47A	116
12	4,320	36	2,132	29A	245		
13	1,650	40	3,883	29B	420		
14	2,112	43	242	29C	25		
15	3,934	45	217	30A	316		
16	3,370	46	270	30B	236		
17	1,965	01A	899	31A	682		
18	1,229	01B	23	34A	535		
19	170	01C	1,048	35A	143		
20	1,530	02A	265	35B	101		
21	1,853	03A	288	37A	1,217		



E4TheFuture is dedicated to bringing clean, efficient energy home for every American and promotes energy solutions to advance climate protection and economic fairness. Visit www.E4TheFuture.org



E2 is a national, nonpartisan group of business leaders, investors, and other professionals from every sector of the economy who advocate for smart policies that are good for the environment and good for the economy. Visit www.e2.org



BW Research Partnership is a full-service, economic and workforce research consulting firm with offices in Carlsbad, California and Wrentham, Massachusetts. It is the nation's leading provider of accurate, comprehensive energy and clean energy research studies. Visit www.bwresearch.com

Data Source: Unless otherwise stated, all data are from the U.S. Energy and Employment Report, July 2021, by the U.S. Department of Energy (see Appendix A 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 Bureau of Labor Statistics -- provides the broadly accepted best accounting of all U.S. energy workers.

For questions on E4TheFuture analyses please email: policy@e4thefuture.org.