West Virginia

Energy Efficiency Jobs in America

6,668
Total Jobs

What are EE Jobs?

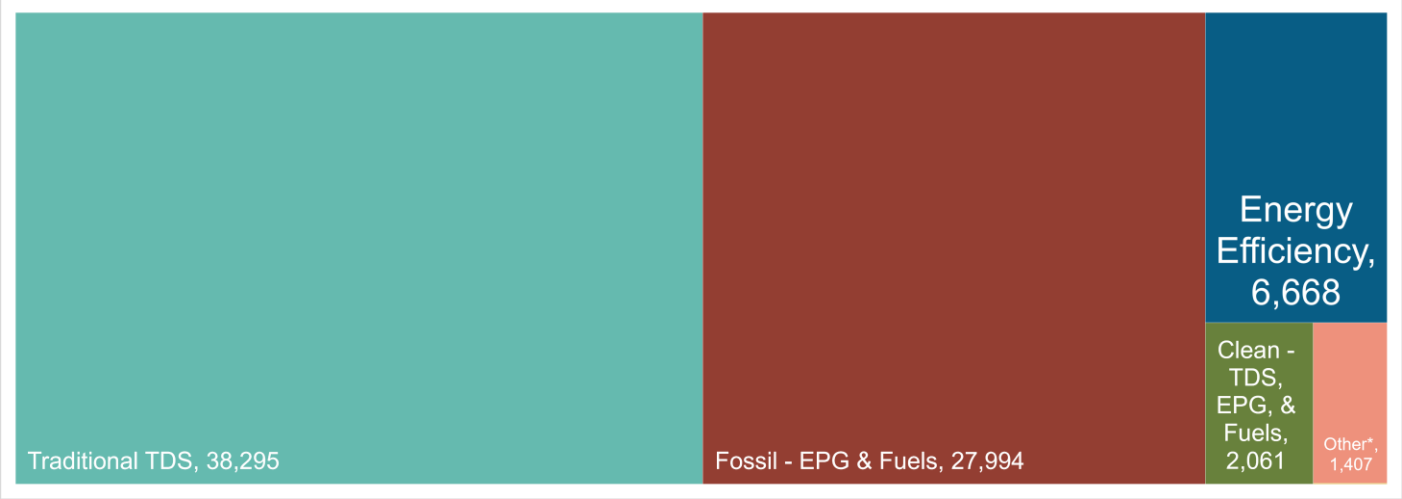
Jobs that deliver goods and services that lower energy use by improving energy efficiency – with a focus on appliances, buildings, data systems, financing, new technologies, and more.

What do EE workers do?

- **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 data** using software to maximize energy 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.

How does EE compare in West Virginia?

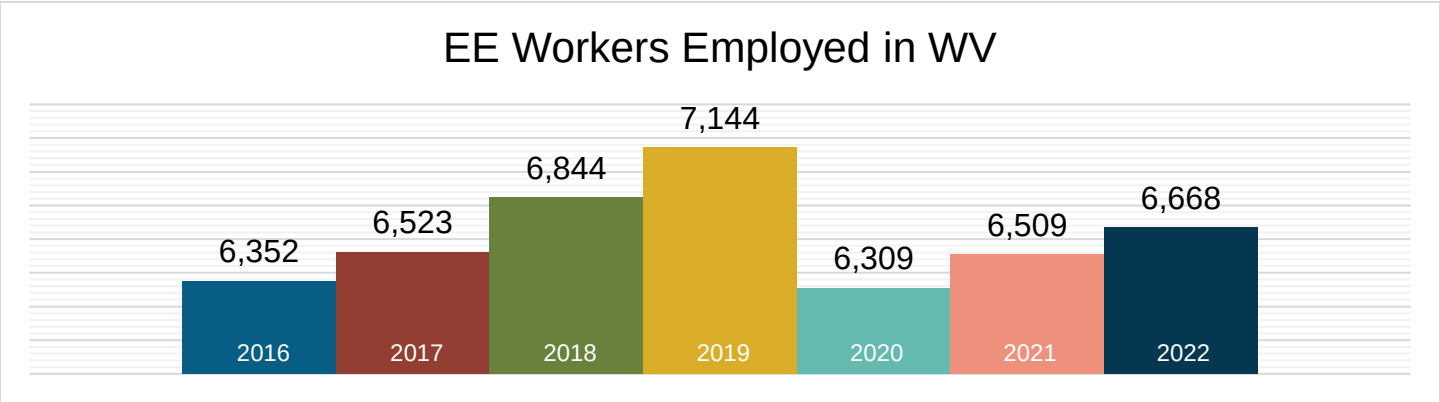
Energy Efficiency is the third largest energy sector in West Virginia.

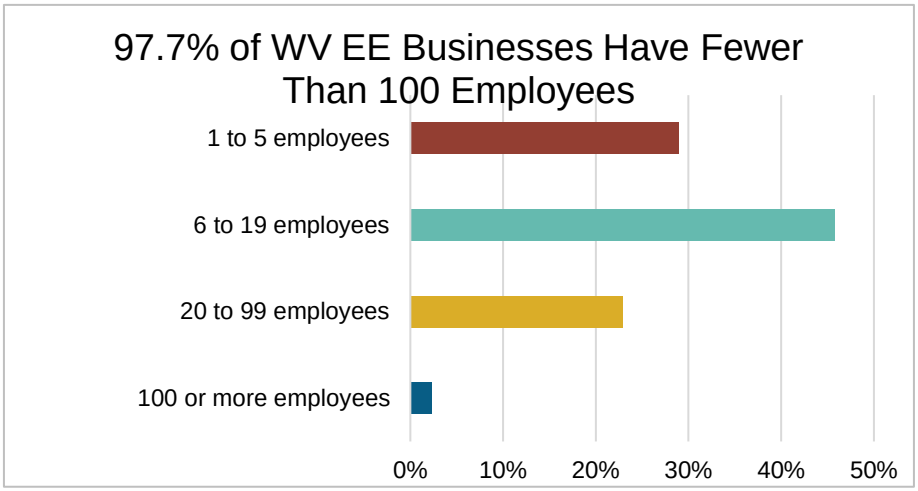


TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
Nuclear (EPG & Fuels) = <10
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by: E2 E4 THE FUTURE

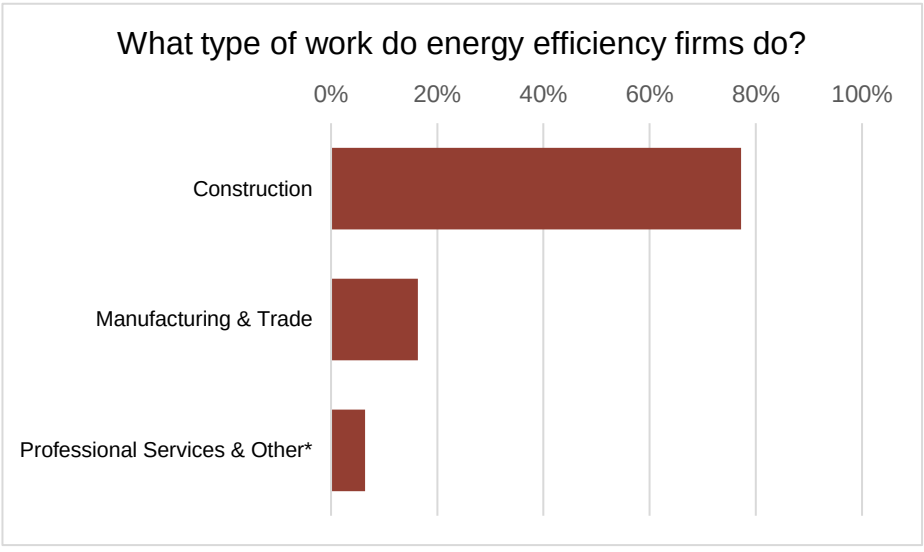
What does EE look like in West Virginia?



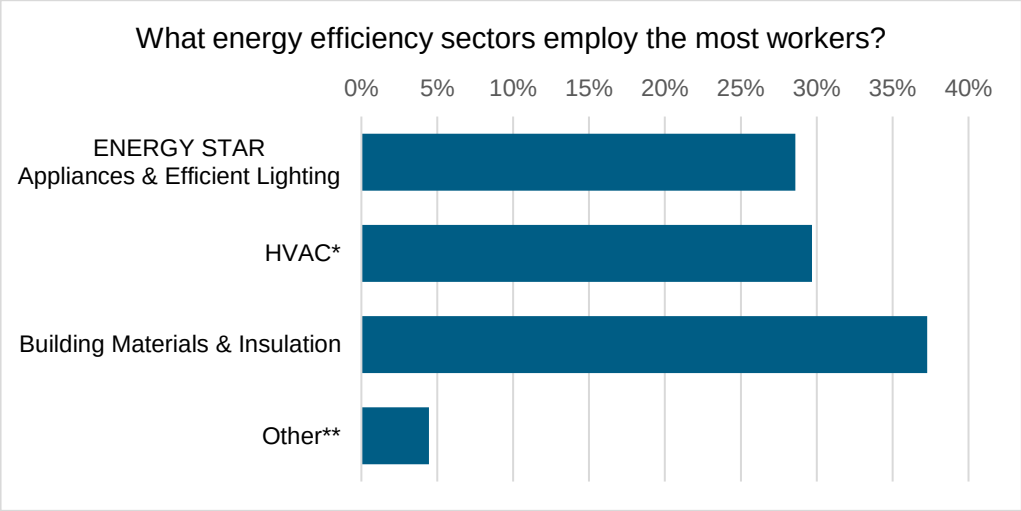


716
EE businesses in West Virginia

EE construction workers comprise **17%** of West Virginia's construction workforce



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



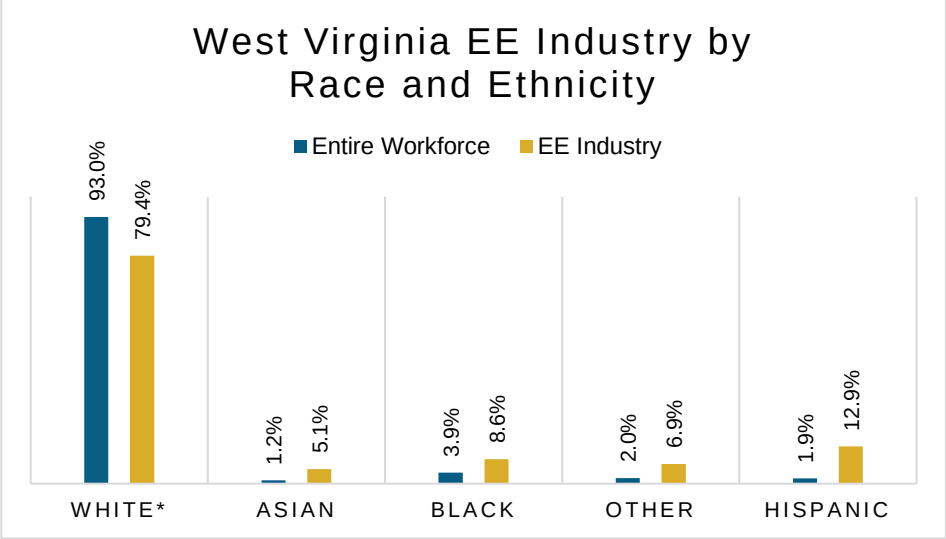
*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

14%
of West Virginia EE workers are **Veterans**

How is EE doing on diversity in West Virginia?

Demographic data is critical to measure progress in expanding the diversity of the EE industry. A more inclusive industry that reflects the communities it serves is a stronger one that better meets the needs of all U.S. residents. Promoting diversity in hiring is key to maintaining a future workforce of qualified professionals and ensuring all West Virginia 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.

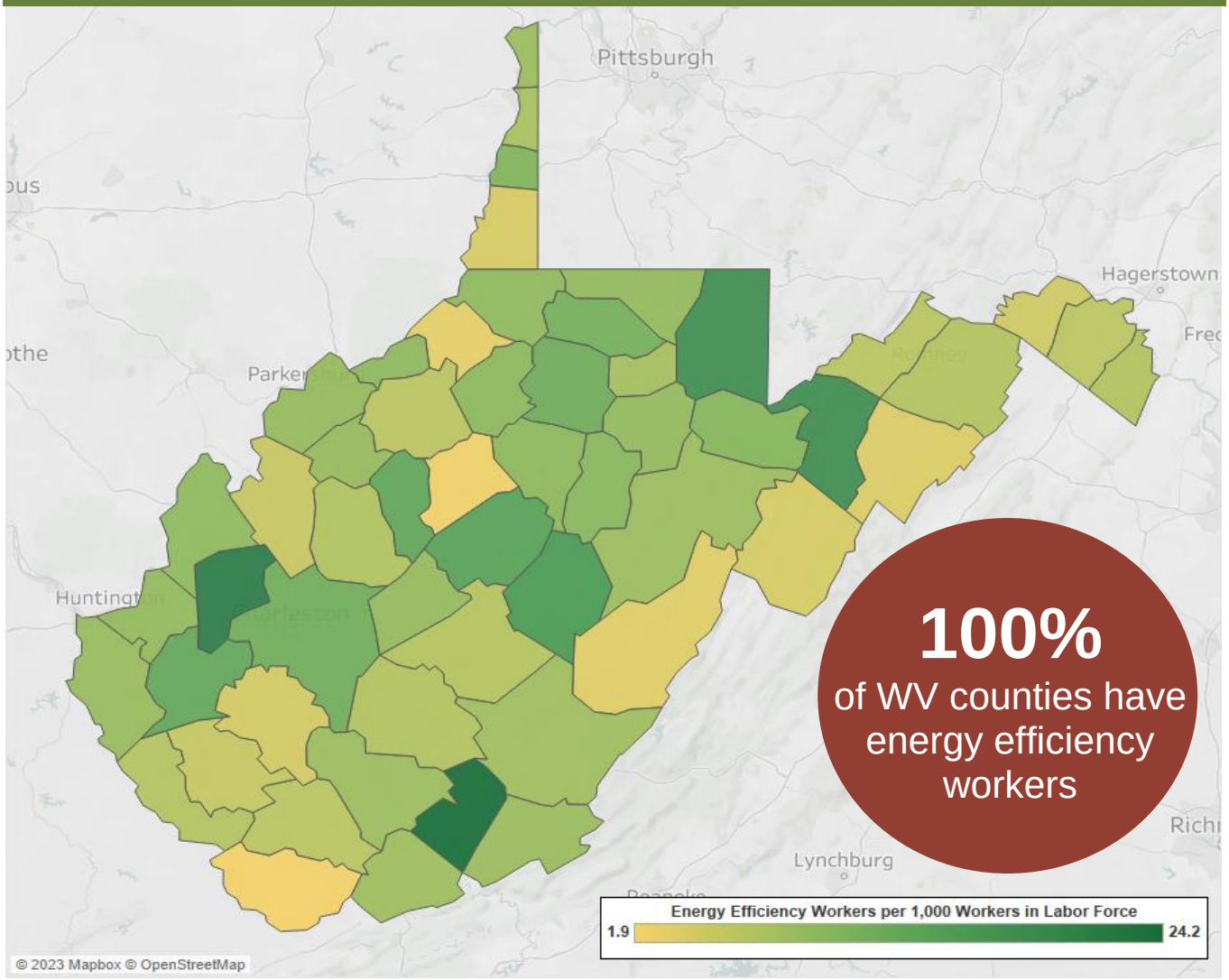


*Includes non-Hispanic and Hispanic whites.

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.

Energy Efficiency Jobs are Everywhere

EE Jobs by County



Congressional		Metropolitan Areas					
District	Jobs		Area	Jobs		Area	Jobs
1	2,604		Charleston	1,160		Washington-Arlington-Alexandria	106
2	2,303		Cumberland	53		Weirton-Steubenville	130
3	1,762		Hagerstown-Martinsburg	227		Wheeling	325
			Huntington-Ashland	1,011		Winchester	27
			Morgantown	654		Rural	2,655
			Parkersburg-Vienna	322			

State Upper House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	469	11	421	21	<10	31	<10
2	919	12	483	22	<10	32	<10
3	478	13	31	23	<10	33	<10
4	501	14	271	24	<10	34	<10
5	413	15	416	25	<10		
6	300	16	279	26	<10		
7	152	17	32	27	<10		
8	794	18	<10	28	<10		
9	395	19	<10	29	<10		
10	315	20	<10	30	<10		

State Lower House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	140	28	314	55	58	82	<10
2	259	29	34	56	29	83	<10
3	23	30	<10	57	71	84	<10
4	104	31	39	58	122	85	<10
5	33	32	200	59	153	86	<10
6	65	33	46	60	111	87	<10
7	42	34	62	61	26	88	<10
8	153	35	698	62	<10	89	<10
9	262	36	137	63	68	90	<10
10	<10	37	<10	64	<10	91	<10
11	161	38	<10	65	102	92	<10
12	14	39	11	66	13	93	<10
13	124	40	<10	67	<10	94	<10
14	170	41	22	68	<10	95	<10
15	55	42	129	69	<10	96	<10
16	324	43	163	70	<10	97	<10
17	60	44	129	71	<10	98	<10
18	<10	45	<10	72	<10	99	<10
19	69	46	77	73	<10	100	<10
20	86	47	181	74	<10		
21	23	48	462	75	<10		
22	50	49	180	76	<10		
23	19	50	10	77	<10		
24	30	51	302	78	<10		
25	124	52	80	79	<10		
26	94	53	13	80	<10		
27	25	54	105	81	<10		

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 others 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: Except for county data on page 4, all data are from the U.S. Energy and Employment Report, June 2023, by the U.S. Department of Energy (see Appendix B 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