West Virginia

Energy Efficiency Jobs in America

7,271
Total Jobs

What are EE jobs?

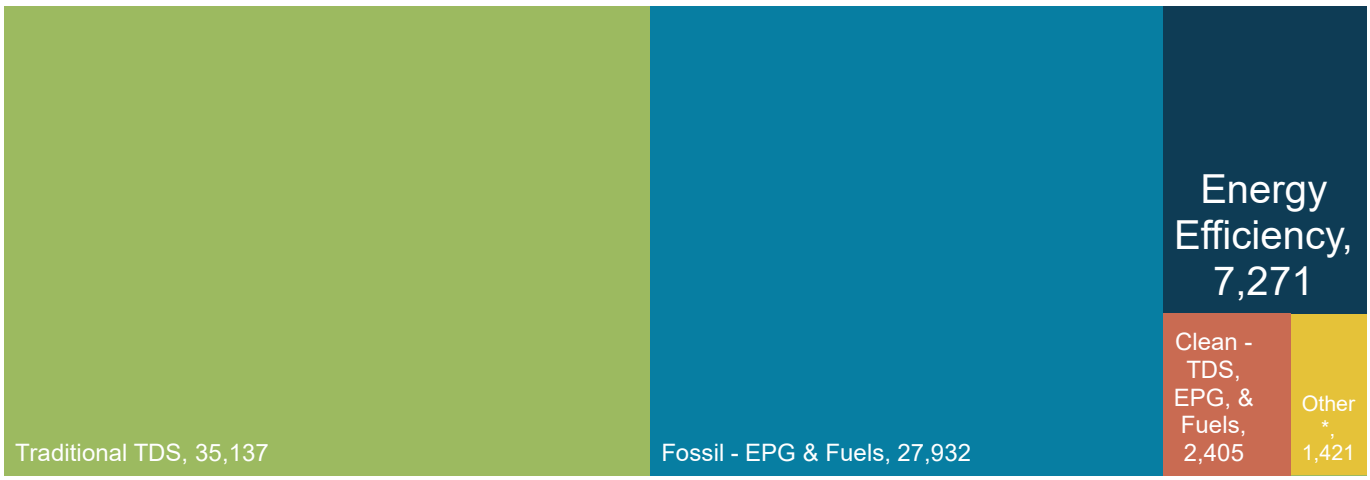
Jobs that reduce energy use by improving efficiency in appliances, buildings, data systems, financing, new technologies, and more.

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, as well as commercial, and industrial buildings.
- **Design and construct** high-performance buildings such as those earning nationally recognized sustainability and environmental performance ratings.
- **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 to other energy sectors in West Virginia?

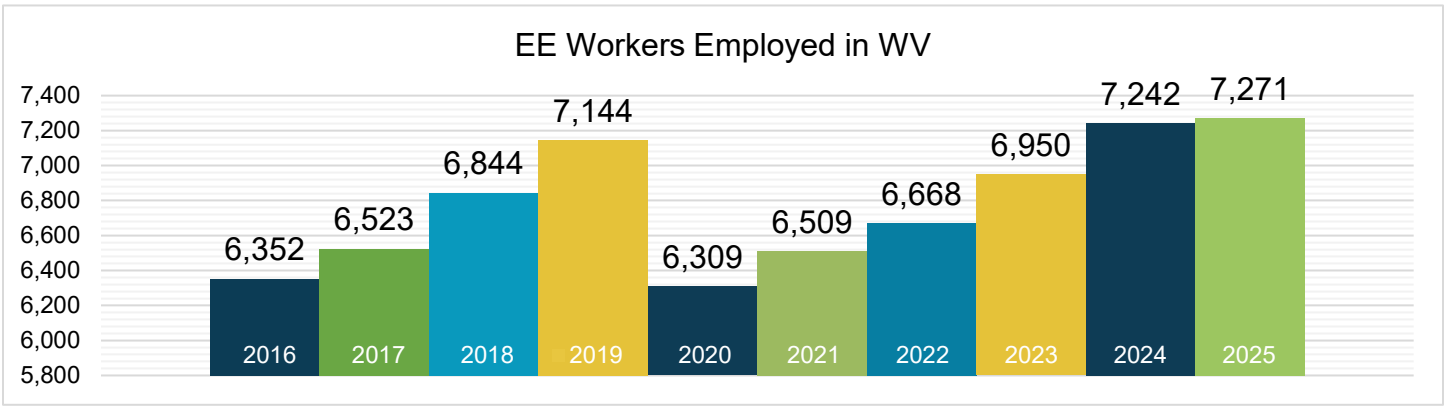
Energy efficiency is the third largest energy sector in West Virginia.

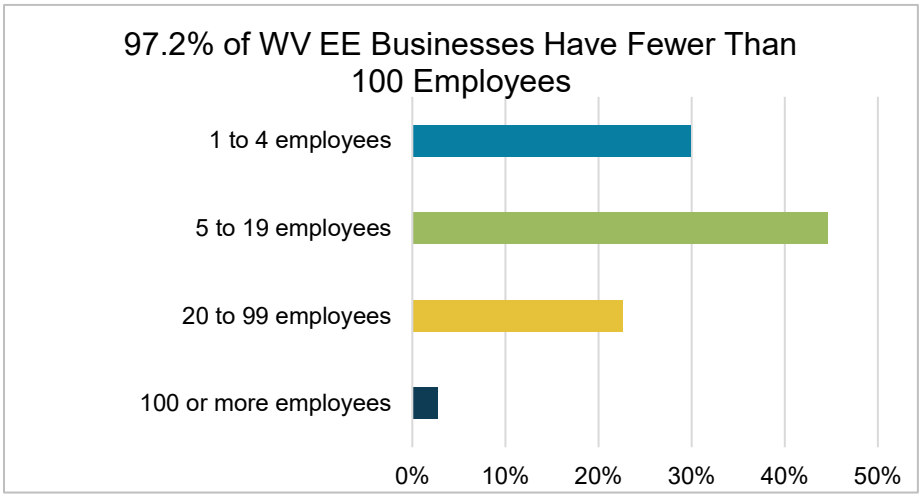


TDS = Transmission, Distribution, & Storage
EPG = Electric Power Generation
**Nuclear - EPG & Fuels = 12
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by:

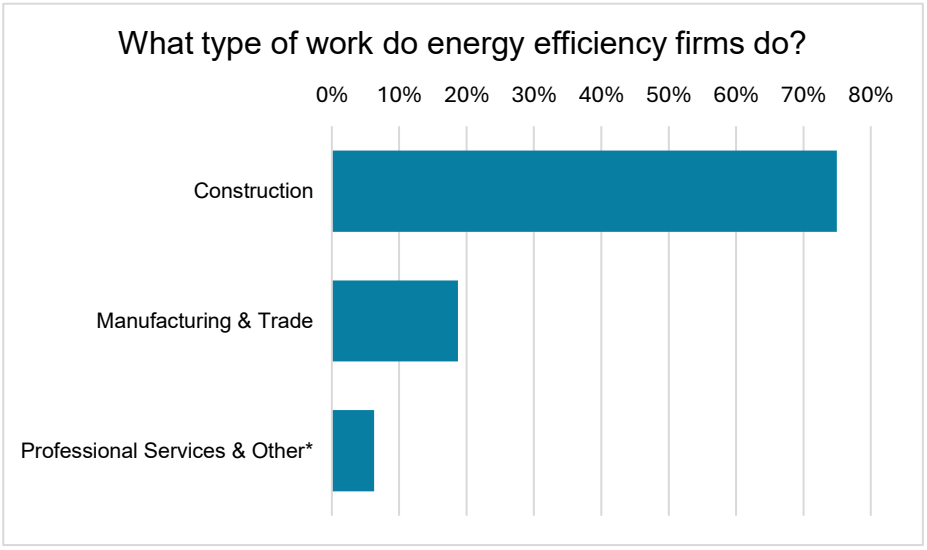
What does EE look like in West Virginia?



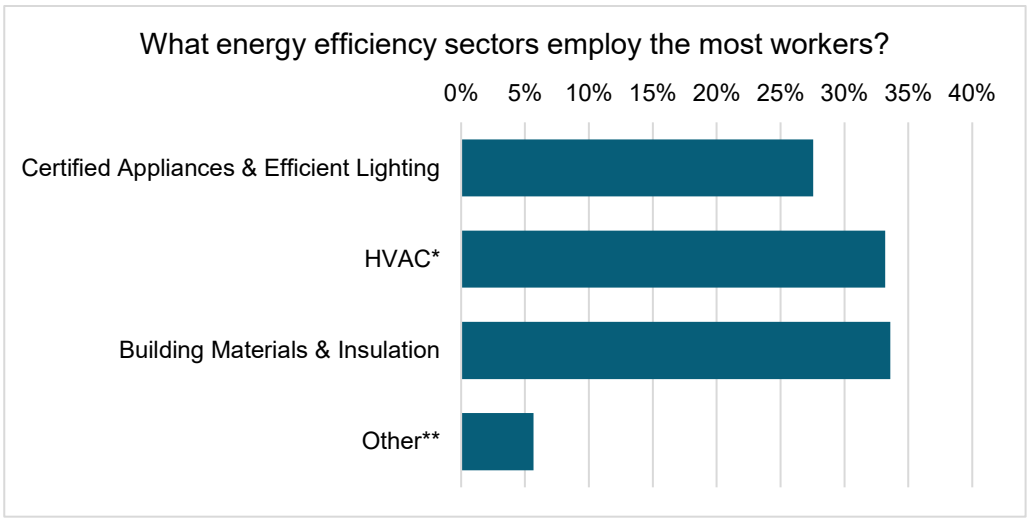


745
EE businesses in West Virginia

EE construction workers comprise **13%** of West Virginia's construction workforce



*Professional services include finance, accounting, architecture, engineering, research and development, and more. The "other" category includes roles in maintenance, business operations, and nonprofit organizations.



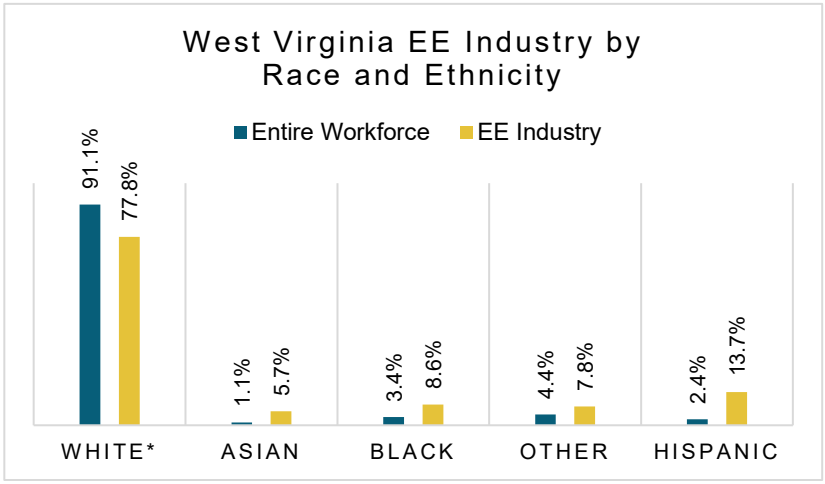
13% of West Virginia EE workers are **veterans**

Certified Appliances = ENERGY STAR-certified appliances
*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating and cooling
**Other includes energy audits, building certifications, and software services

How representative is the EE workforce in West Virginia?

Demographic data is critical to measure progress towards a more representative EE workforce. Tracking this data helps show how well West Virginia's EE workforce reflects the communities it serves and where gaps remain.

Expanded training programs in West Virginia can help ensure energy efficiency careers are accessible to all.



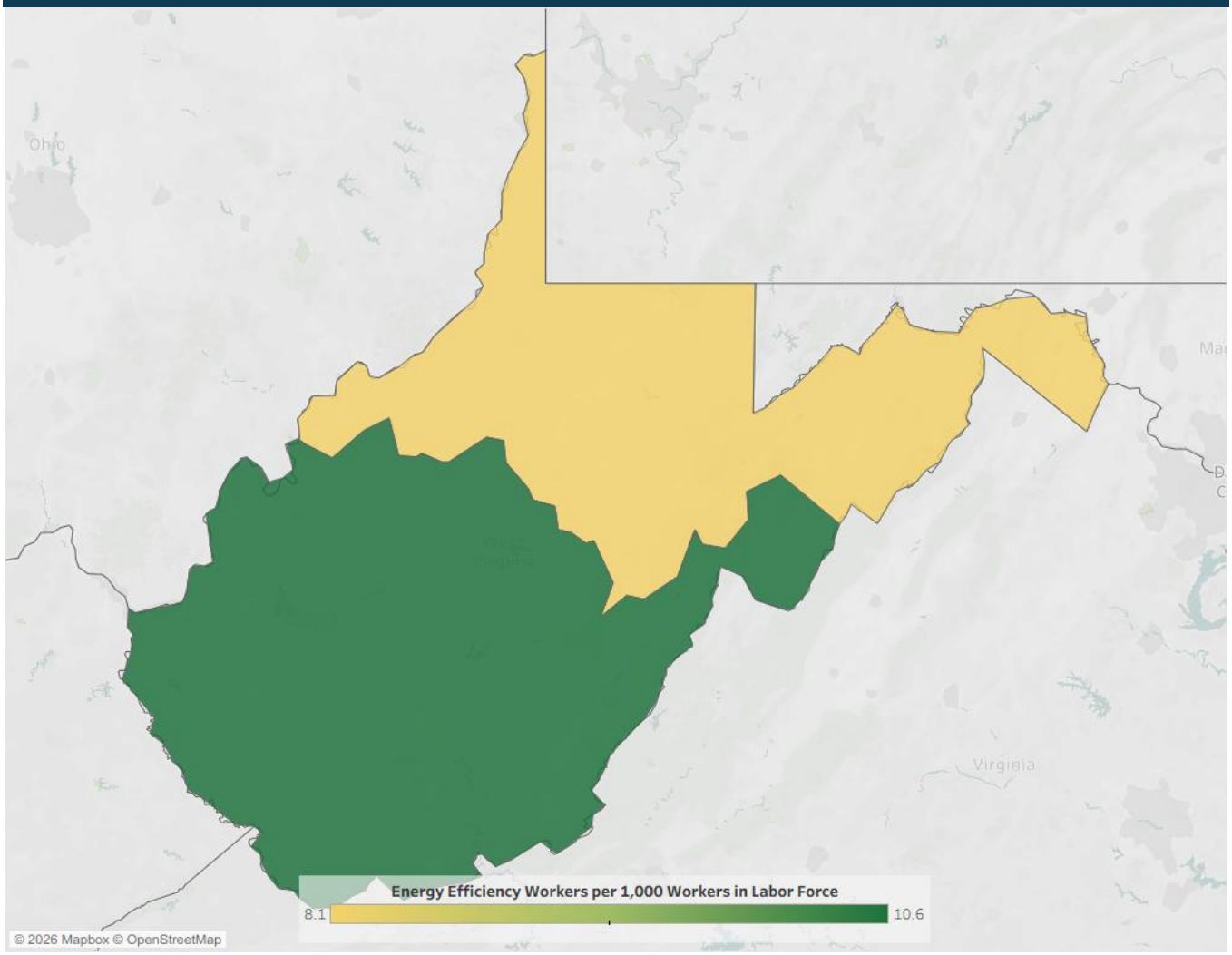
*Includes non-Hispanic and Hispanic whites.



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

Energy efficiency jobs are everywhere

EE Jobs by Congressional District



Congressional	
District	**Jobs**
1	**3,777**
2	**3,494**

Metropolitan Areas	
Area	**Jobs**
Charleston	**1,251**
Cumberland	**59**
Hagerstown-Martinsburg	**247**
Huntington-Ashland	**1,091**
Morgantown	**708**
Parkersburg-Vienna	**351**

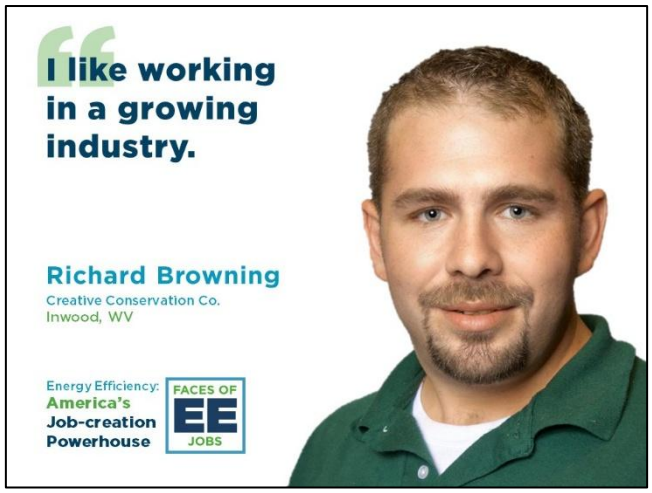
Metropolitan Areas	
Area	**Jobs**
Washington-Arlington-Alexandria	**115**
Weirton-Steubenville	**142**
Wheeling	**350**
Winchester	**29**
Rural	**2,927**

State Senate							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	483	6	255	11	351	16	237
2	240	7	199	12	598	17	786
3	425	8	619	13	742		
4	568	9	366	14	369		
5	521	10	313	15	199		

State House of Delegates							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	37	26	124	51	33	76	29
2	62	27	40	52	109	77	41
3	63	28	24	53	125	78	216
4	36	29	28	54	163	79	112
5	277	30	31	55	74	80	13
6	43	31	29	56	203	81	229
7	58	32	21	57	118	82	<10
8	35	33	40	58	167	83	77
9	50	34	30	59	140	84	73
10	45	35	29	60	104	85	105
11	54	36	<10	61	102	86	27
12	74	37	68	62	34	87	47
13	150	38	97	63	66	88	22
14	46	39	23	64	62	89	28
15	33	40	64	65	84	90	45
16	30	41	68	66	32	91	30
17	35	42	53	67	81	92	34
18	56	43	42	68	45	93	33
19	130	44	129	69	54	94	<10
20	149	45	53	70	225	95	77
21	218	46	42	71	112	96	60
22	117	47	89	72	126	97	<10
23	90	48	53	73	29	98	32
24	44	49	38	74	176	99	42
25	164	50	33	75	26	100	45

Faces of EE

The EE industry creates jobs, lowers bills, and strengthens the economy. Woven through communities via manufacturing, construction, professional services, and more, EE jobs are the backbone of the energy sector. This sample of people highlights just a few of the wide variety of jobs in the energy efficiency industry and the potential for growth when workforce development and training are prioritized.





Note: Some individuals pictured may have changed jobs since they joined Faces of EE.

This report was funded by the Building Performance Foundation and informed by the industry expertise of the Building Performance Association. Research was conducted by BW Research Partnership.

The Building Performance Foundation (BPF) is a 501(c)(3) charitable organization that works with policymakers, industry stakeholders, and professionals across the trades to educate and advance understanding of building performance, support workforce development, and expand access to career opportunities. Visit www.foundation.building-performance.org.

The Building Performance Association (BPA) is a 501(c)(6) industry trade association that serves and represents the professionals and businesses working to make America's homes more comfortable, healthy, and energy efficient, supporting them through membership, advocacy, education, and engagement. Visit www.building-performance.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 August 2026 U.S. Energy and Employment Report, 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 BPA analyses, please email communications@building-performance.org.