Virginia

Energy Efficiency Jobs in America

78,043
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 Virginia?

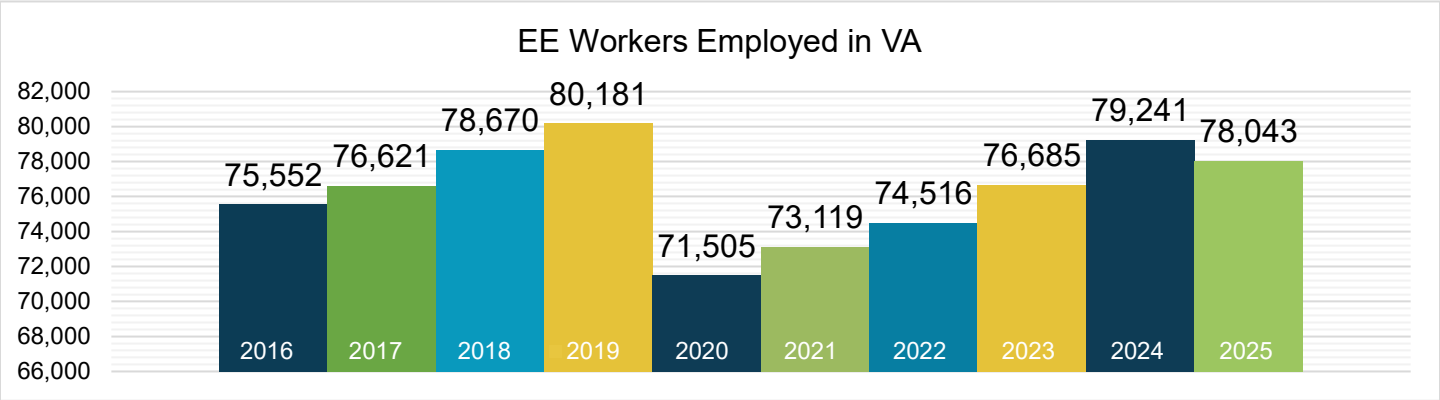
Energy efficiency is the largest energy sector in Virginia.

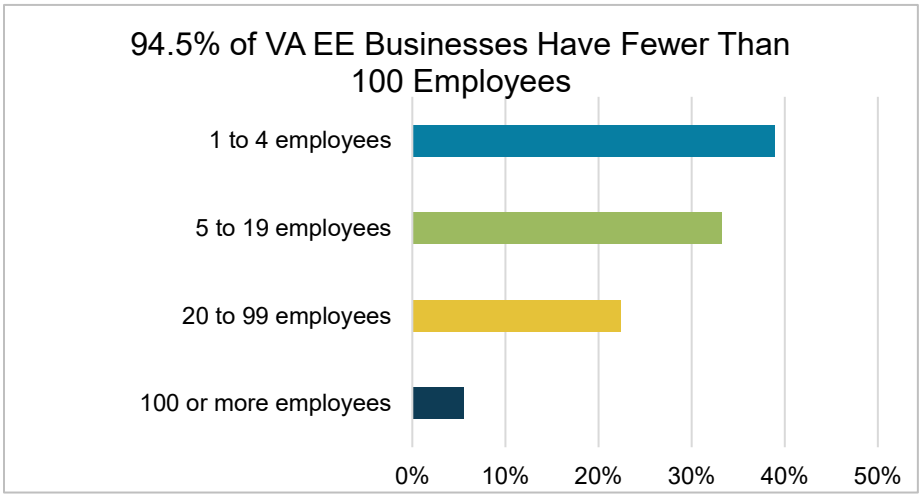


TDS = Transmission, Distribution, & Storage
EPG = Electric Power Generation
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

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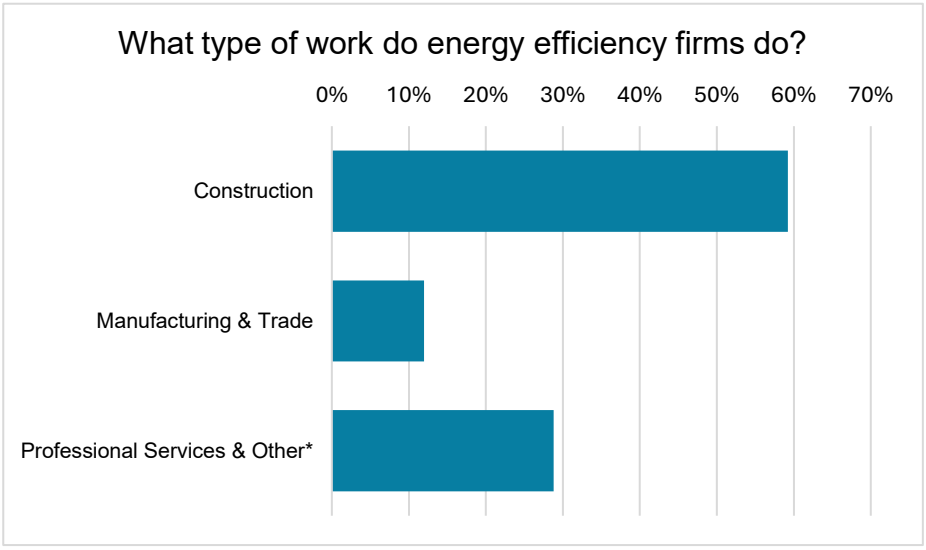
What does EE look like in Virginia?



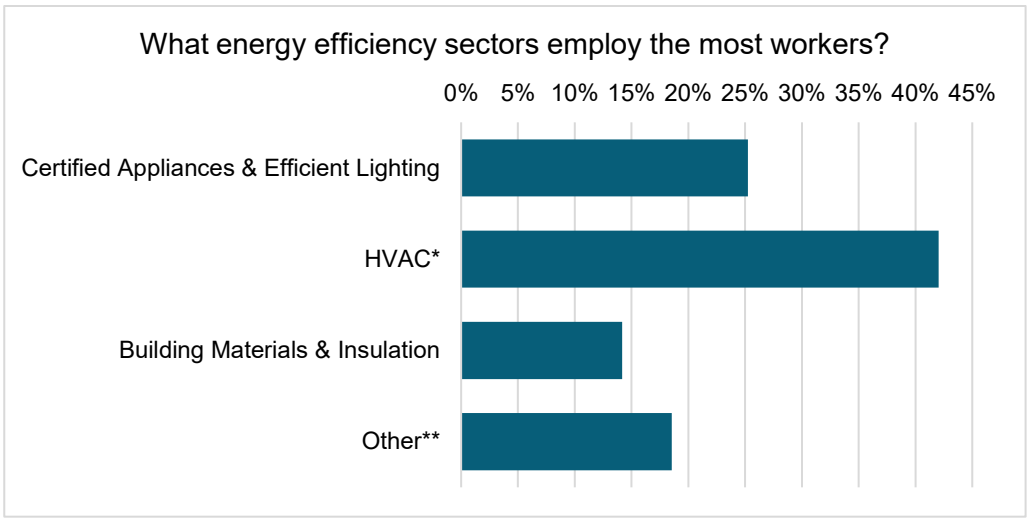


9,115
EE businesses in Virginia

EE construction workers comprise **17%** of 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.



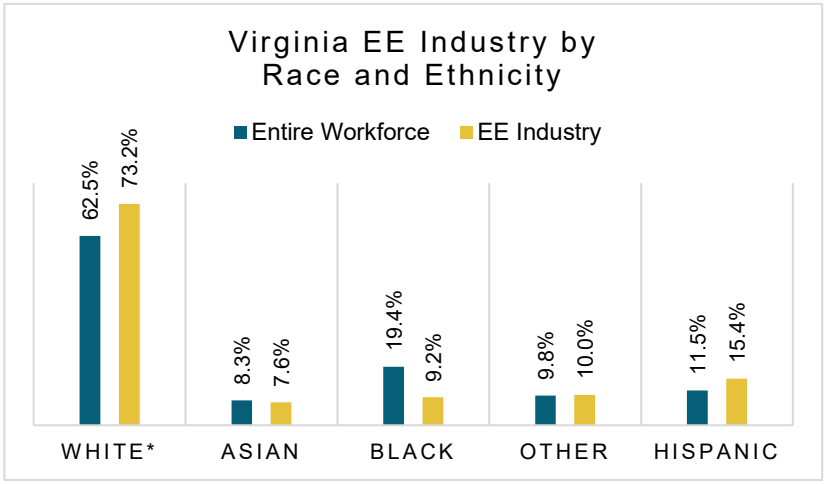
9%
of Virginia
EE workers are
veterans

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 Virginia?

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

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



*Includes non-Hispanic and Hispanic whites.

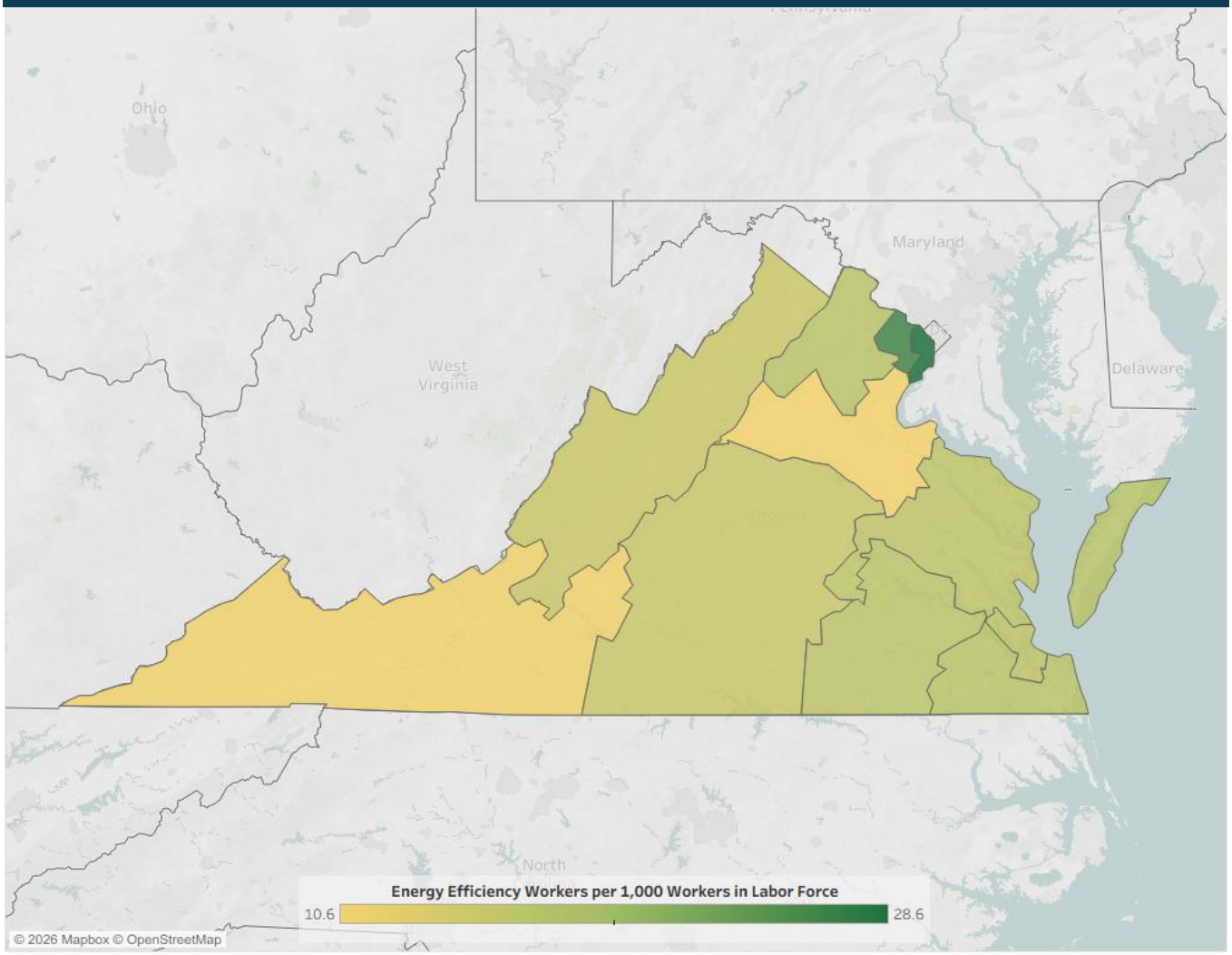
Gender in the Virginia EE Workforce



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



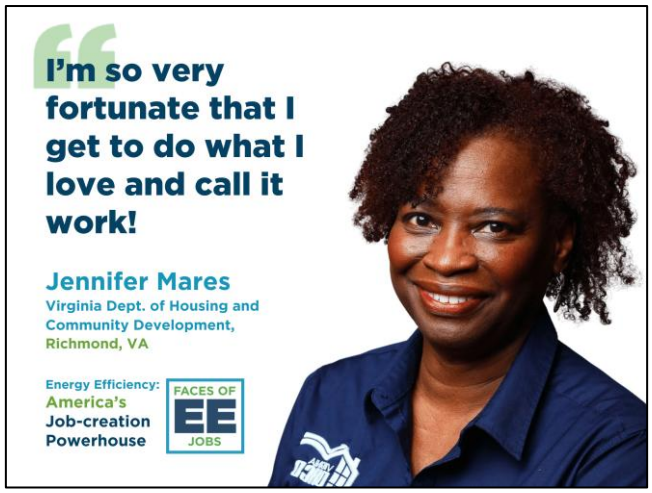
Congressional				Metropolitan Areas			
District	Jobs	District	Jobs	Area	Jobs	Area	Jobs
1	6,608	7	4,491	Blacksburg-Christiansburg-Radford	1,146	Richmond	12,186
2	6,584	8	13,017	Charlottesville	1,864	Roanoke	2,765
3	6,009	9	3,694	Danville	435	Virginia Beach-Norfolk-Newport News	12,985
4	6,951	10	7,442	Harrisonburg	1,131	Virginia-Arlington-Alexandria	35,303
5	5,794	11	11,596	Kingsport-Bristol-Bristol	460	Winchester	734
6	5,855			Lynchburg	2,092	Rural	6,942

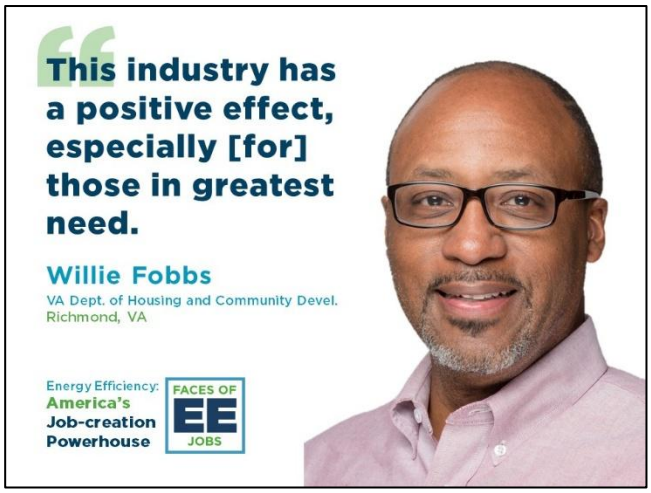
State Senate							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	1,154	11	1,872	21	1,960	31	1,829
2	1,711	12	1,791	22	1,521	32	2,676
3	927	13	1,182	23	1,353	33	2,471
4	2,615	14	2,206	24	1,639	34	3,322
5	1,341	15	2,706	25	938	35	2,956
6	1,074	16	2,455	26	1,645	36	3,843
7	727	17	903	27	1,293	37	3,064
8	1,618	18	1,818	28	1,309	38	2,897
9	930	19	1,957	29	1,265	39	3,423
10	1,612	20	2,359	30	2,072	40	3,608

State House of Delegates							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	1,391	26	1,400	51	553	76	1,120
2	1,435	27	784	52	1,096	77	1,610
3	1,522	28	846	53	179	78	1,417
4	1,654	29	893	54	1,206	79	619
5	1,029	30	580	55	487	80	578
6	1,208	31	365	56	465	81	676
7	1,013	32	607	57	1,277	82	341
8	1,494	33	406	58	859	83	254
9	1,672	34	835	59	638	84	428
10	1,149	35	652	60	1,087	85	422
11	950	36	430	61	638	86	768
12	1,634	37	345	62	421	87	473
13	1,138	38	1,390	63	529	88	655
14	1,302	39	377	64	558	89	439
15	984	40	973	65	455	90	736
16	1,444	41	517	66	202	91	1,133
17	1,168	42	596	67	549	92	1,125
18	1,716	43	451	68	322	93	853
19	1,242	44	546	69	514	94	728
20	1,055	45	330	70	825	95	577
21	791	46	330	71	413	96	944
22	501	47	254	72	610	97	501
23	263	48	306	73	799	98	557
24	728	49	403	74	286	99	878
25	439	50	364	75	646	100	695

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.