

Virginia

Energy Efficiency Jobs in America

76,685
Total Jobs

What are EE jobs?

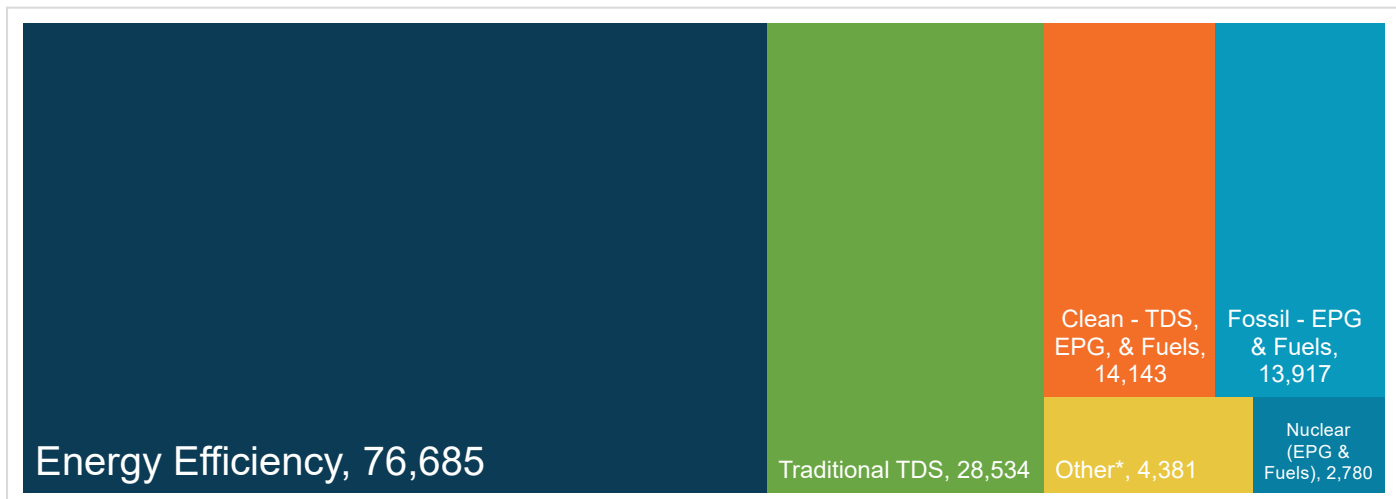
Jobs that deliver goods and services that lower energy use by improving energy efficiency with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 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 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.

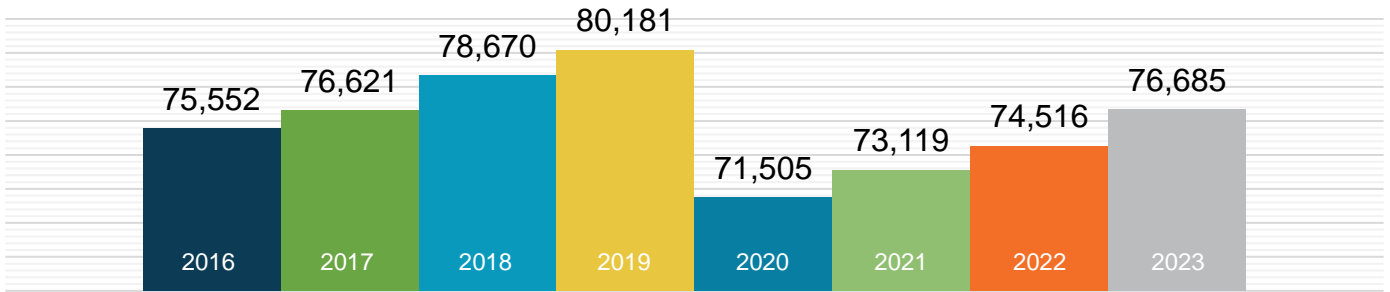
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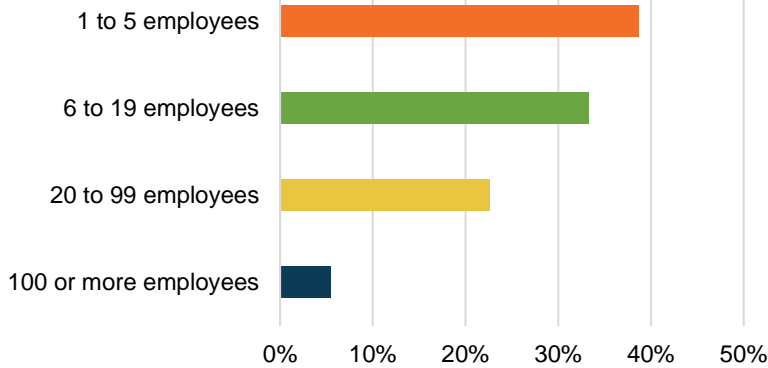
E4 THE FUTURE

What does EE look like in Virginia?

EE Workers Employed in VA



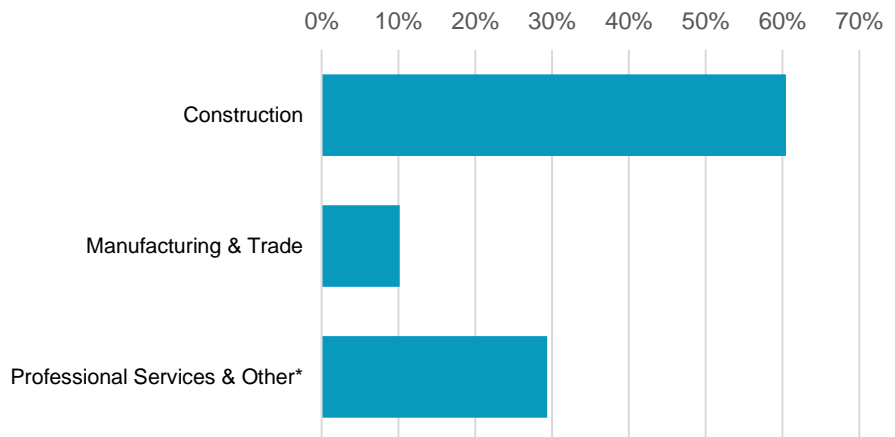
94.5% of VA EE Businesses Have Fewer Than 100 Employees



EE construction workers comprise **22%** of Virginia's construction workforce

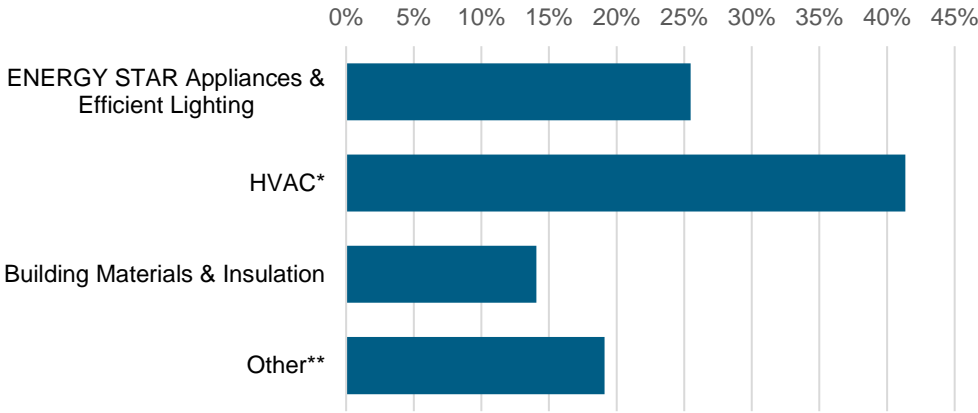


What type of work do energy efficiency firms do?

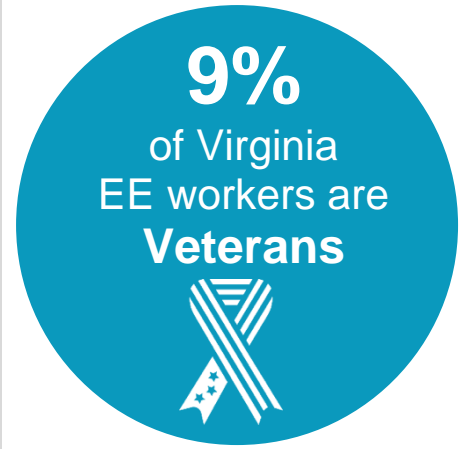


*Professional services include finance/accounting, architecture, engineering, R&D, etc. and other includes maintenance, and business, and nonprofit organizations.

What energy efficiency sectors employ the most workers?



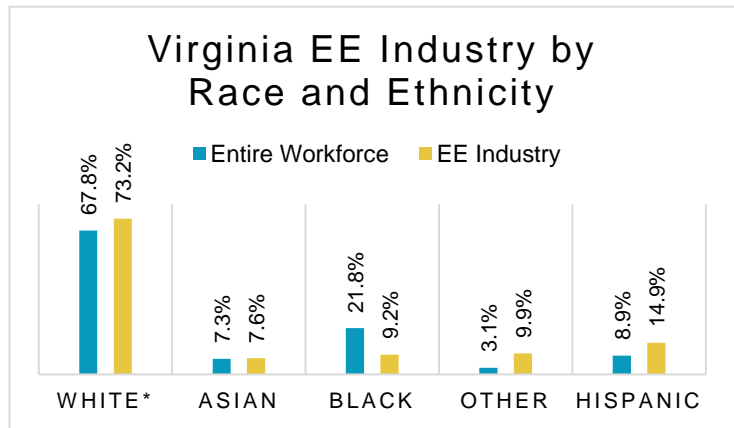
*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating & cooling
 **Other such as energy audits, building certifications, and software services



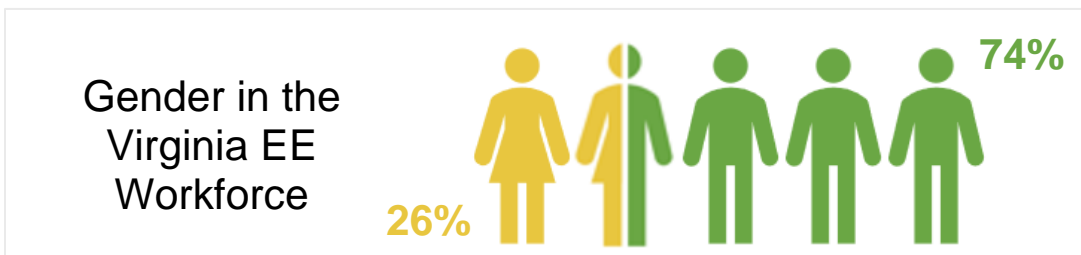
How is EE doing on diversity in Virginia?

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 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 Virginia businesses.



*Includes non-Hispanic and Hispanic whites.

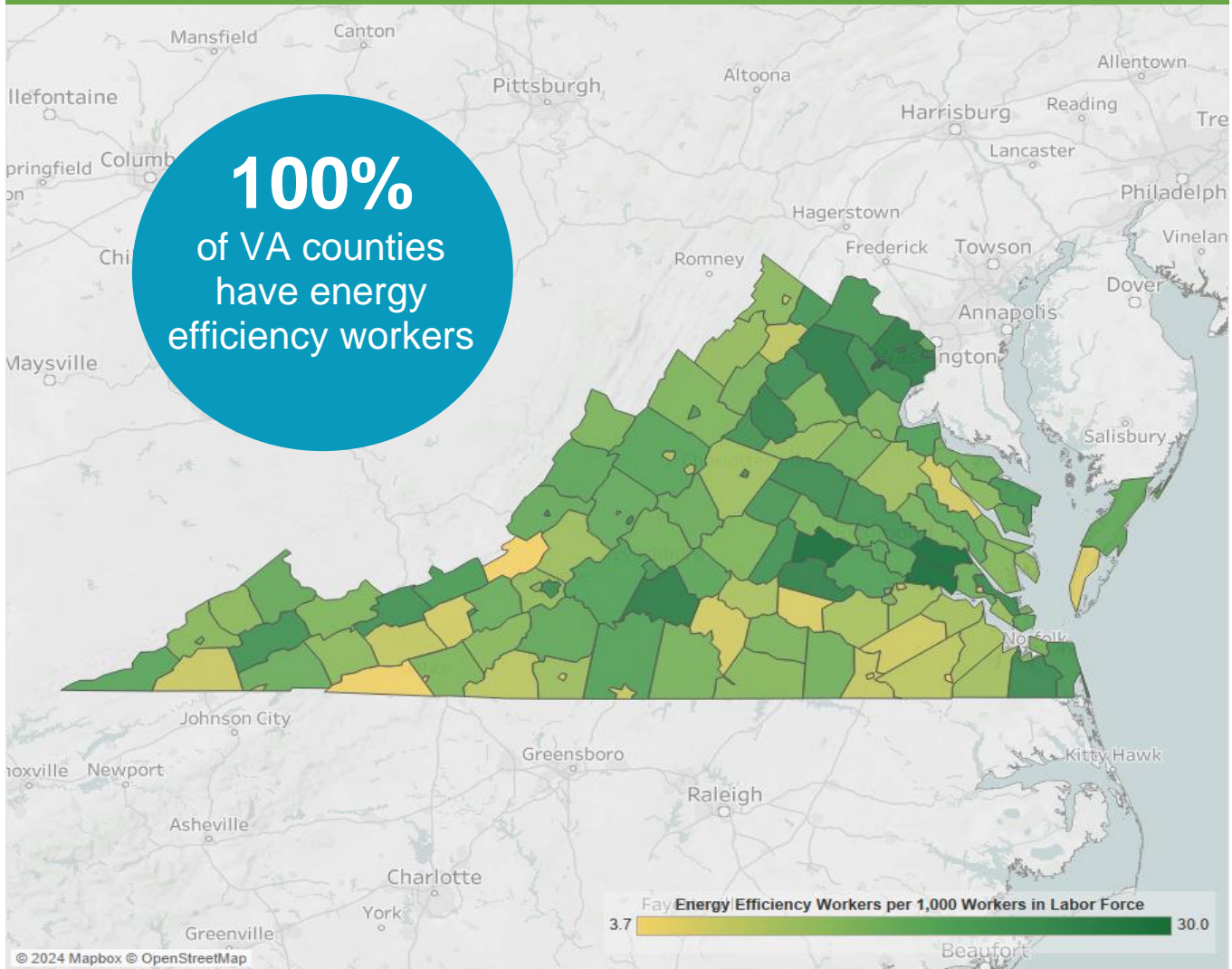


Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Non-binary gender data is missing from this document due to this limitation.



Energy Efficiency Jobs are Everywhere

EE Jobs by County



The energy efficiency job concentration displayed above is capped at thirty jobs per thousand in order to maintain observable differences between the majority of counties within the state. This is done to eliminate the influence outliers have on overall color gradient. For a full list of energy efficiency jobs by county, please visit the Department of Energy's (DOE) United States Energy and Employment Report (USEER) County-Level data site at <https://www.energy.gov/media/330956>.

Congressional				Metropolitan Areas			
District	Jobs	District	Jobs	Area	Jobs	Area	Jobs
1	8,295	7	5,276	Blacksburg-Christiansburg-Radford	1,138	Richmond	12,106
2	7,458	8	9,857	Charlottesville	1,855	Roanoke	2,697
3	7,242	9	4,075	Danville	432	Virginia Beach-Norfolk-Newport News	12,829
4	5,799	10	11,370	Harrisonburg	1,124	Virginia-Arlington-Alexandria	34,337
5	9,969	11	1,364	Kingsport-Bristol-Bristol	458	Winchester	730
6	5,980			Lynchburg	2,079	Rural	6,899

State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	3,041	11	994	21	1,322	31	5,874
2	1,027	12	956	22	1,619	32	3,182
3	1,075	13	4,404	23	450	33	<10
4	2,980	14	1,385	24	2,447	34	3,126
5	3,359	15	2,454	25	2,379	35	1,335
6	748	16	12	26	1,036	36	628
7	2,965	17	2,057	27	2,399	37	387
8	1,193	18	619	28	1,561	38	1,149
9	4,775	19	3,730	29	1,017	39	<10
10	3,765	20	574	30	3,564	40	1,089

State House of Delegates

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	502	26	36	51	<10	76	687
2	993	27	2,520	52	22	77	121
3	636	28	784	53	<10	78	499
4	577	29	762	54	808	79	1,550
5	588	30	382	55	1,618	80	65
6	440	31	1,032	56	1,415	81	1,187
7	983	32	1,256	57	1,565	82	<10
8	1,082	33	183	58	277	83	1,163
9	1,046	34	3,895	59	492	84	<10
10	2,201	35	2,295	60	412	85	<10
11	1,507	36	1,621	61	702	86	<10
12	90	37	538	62	1,303	87	<10
13	1,758	38	1,592	63	274	88	10
14	627	39	1,550	64	1,019	89	148
15	976	40	377	65	66	90	<10
16	200	41	164	66	66	91	946
17	104	42	200	67	891	92	274
18	1,280	43	443	68	2,160	93	735
19	792	44	182	69	1,724	94	1,308
20	1,140	45	2,187	70	<10	95	<10
21	3,914	46	<10	71	296	96	171
22	1,111	47	1,806	72	585	97	499
23	167	48	568	73	<10	98	447
24	383	49	<10	74	677	99	634
25	1,739	50	78	75	247	100	268





The Building Performance Association (BPA) is a 501(c) 6 nonprofit industry association that serves as the hub for businesses, nonprofits, and government agencies working to make America's homes more comfortable, healthy, and energy efficient. Our mission is to transform the market for the home performance industry through advocacy, education, professional development, and networking. [Visit www.building-performance.org](http://www.building-performance.org).



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.



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, August 2024, 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

