

# Virginia

## Energy Efficiency Jobs in America

74,516

Total Jobs

### What are EE Jobs?

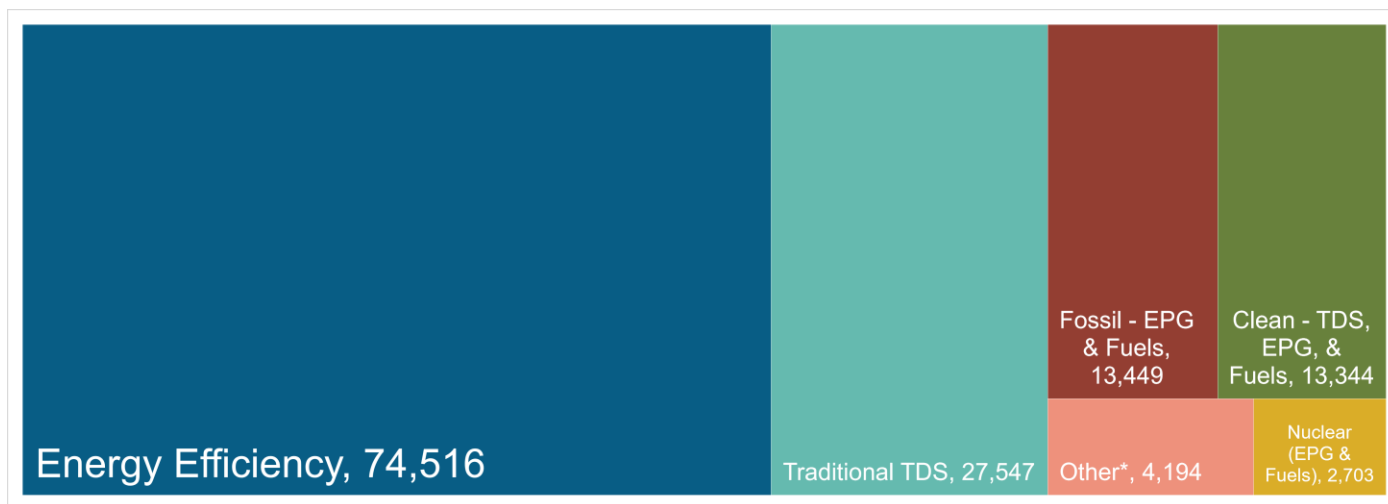
*Jobs that deliver goods and services that lower energy use by improving energy efficiency – with a focus on appliances, buildings, data systems, financing, new technologies, and more.*

### 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 Virginia?

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

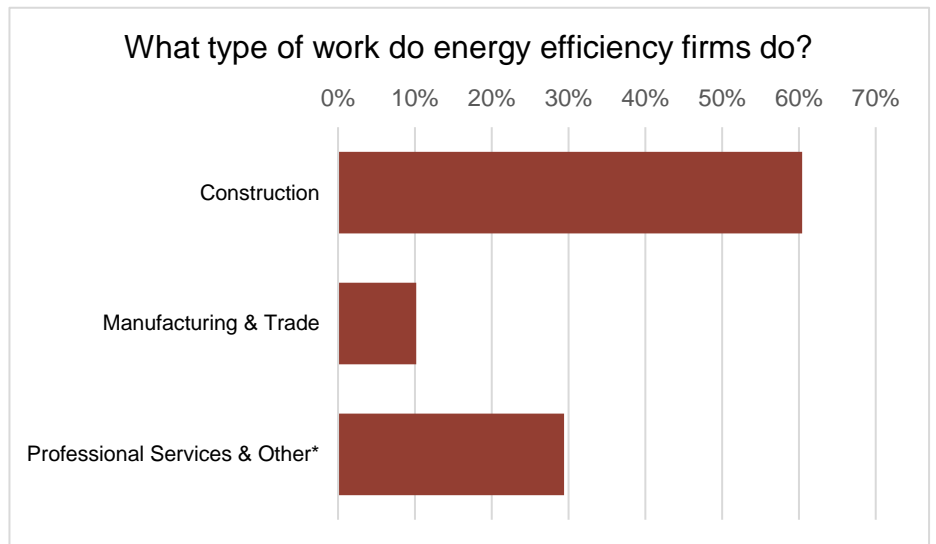
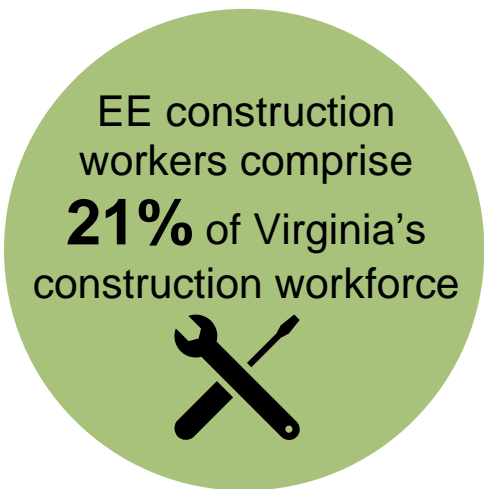
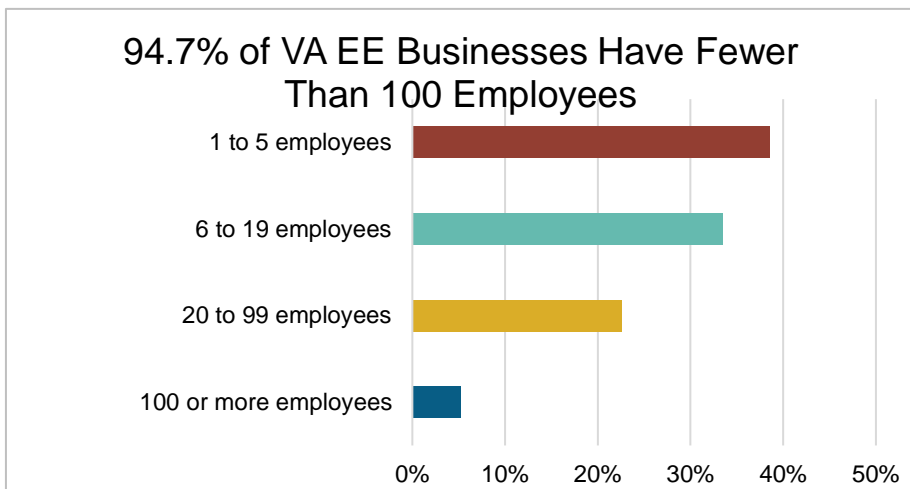
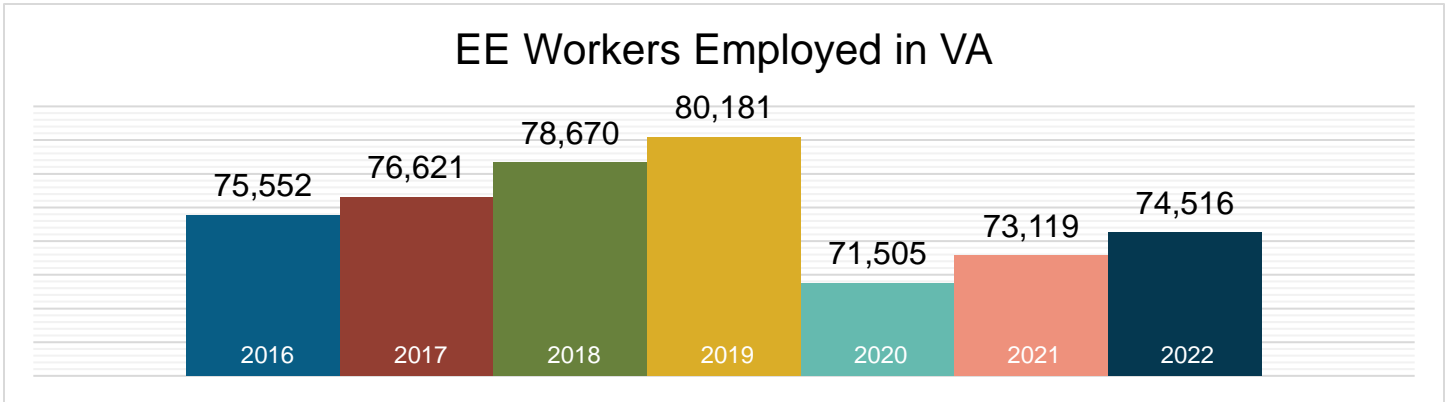


TDS = Transmission, Distribution & Storage

EPG = Electric Power Generation

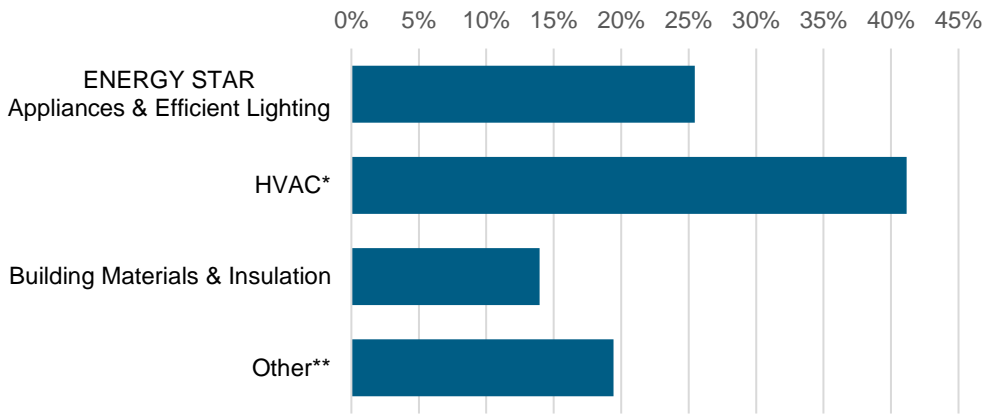
\*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

# What does EE look like in Virginia?

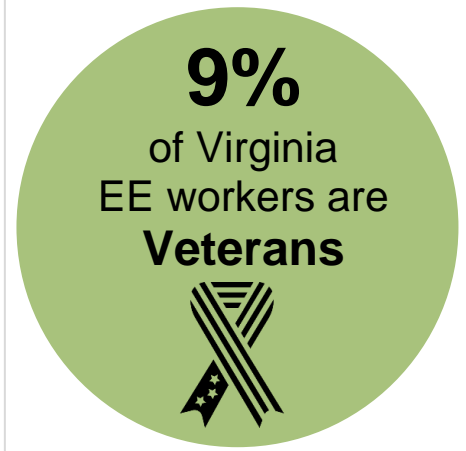


\*Professional services include finance/accounting, architecture, engineering, R&D, etc. and other includes maintenance, and business and nonprofit organizations.

### What energy efficiency sectors employ the most workers?



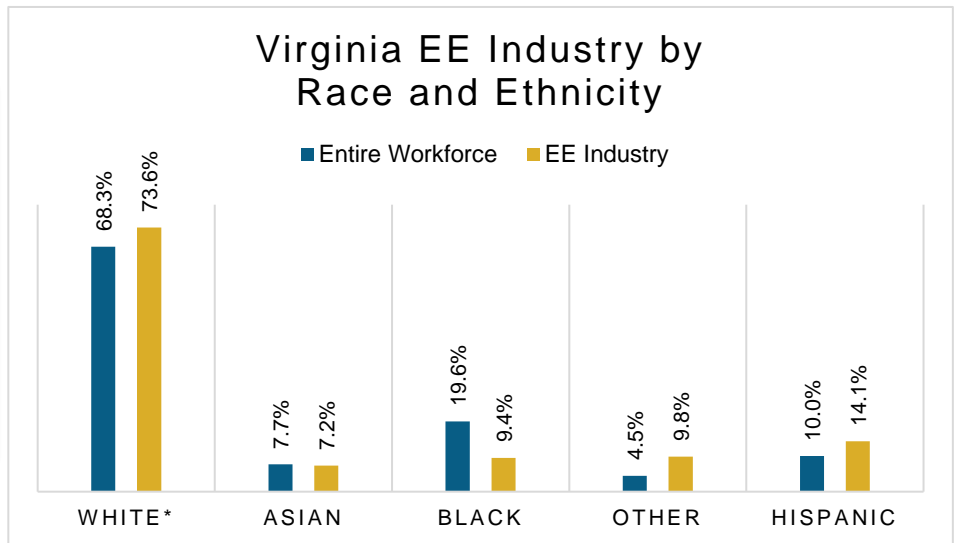
\*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling  
 \*\*Other such as energy audits, building certifications, and software services



## 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 EE businesses.



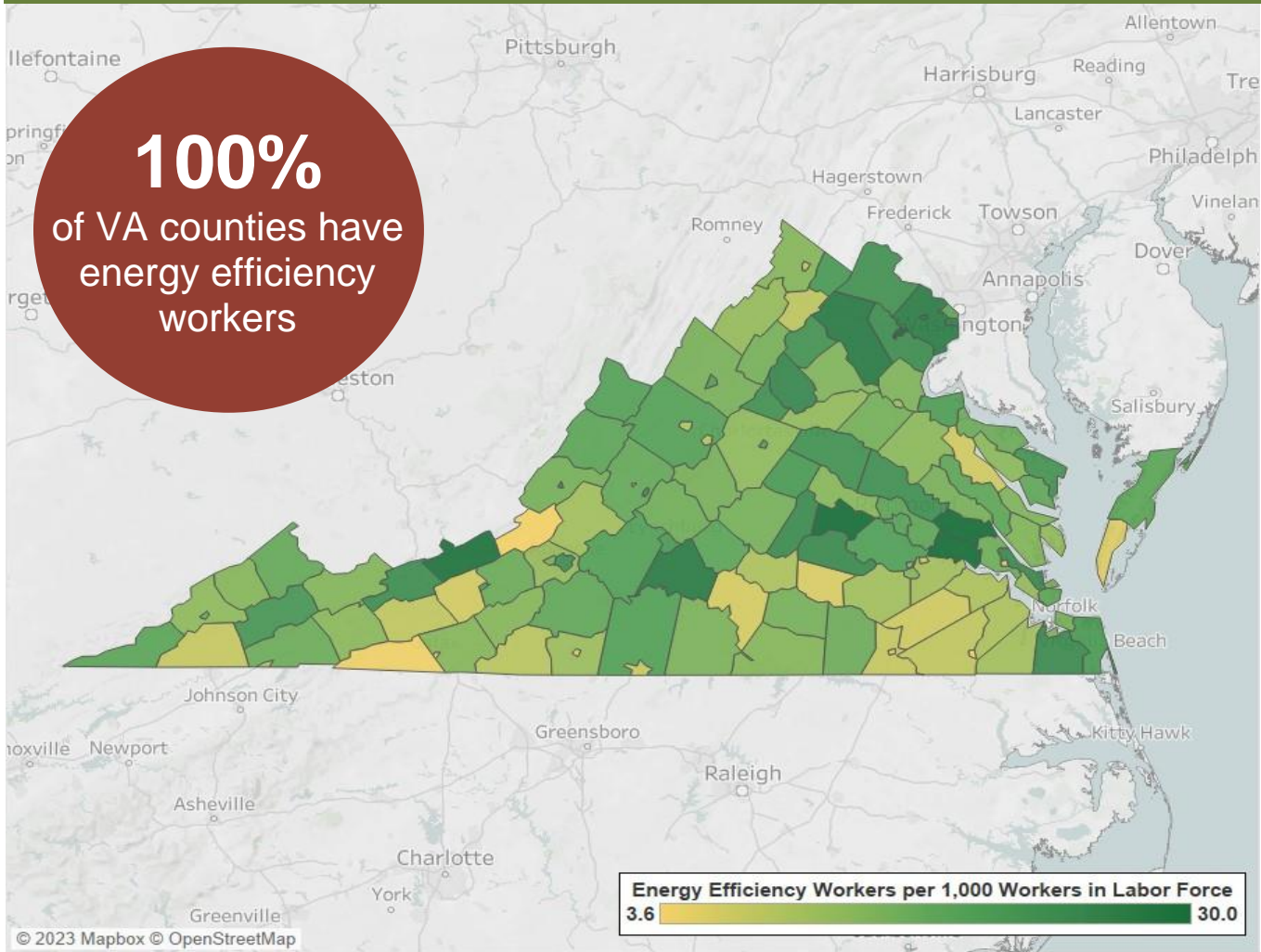
\*Includes non-Hispanic and Hispanic whites.



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



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 the 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/policy/2023-useer-county-level-data-faq>.

Congressional				Metropolitan Areas			
District	Jobs	District	Jobs	Area	Jobs	Area	Jobs
1	8,058	7	5,126	Blacksburg-Christiansburg-Radford	1,104	Richmond	11,781
2	7,247	8	9,580	Charlottesville	1,817	Roanoke	2,613
3	7,037	9	3,958	Danville	411	Virginia Beach-Norfolk-Newport News	12,444
4	5,636	10	11,047	Harrisonburg	1,093	Virginia-Arlington-Alexandria	33,371
5	9,690	11	1,325	Kingsport-Bristol-Bristol	445	Winchester	710
6	5,811			Lynchburg	2,022	Rural	6,704

## State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	2,960	11	968	21	1,287	31	5,718
2	998	12	928	22	1,574	32	3,098
3	1,046	13	4,273	23	438	33	<10
4	2,895	14	1,348	24	2,382	34	3,043
5	3,270	15	2,389	25	2,292	35	1,300
6	728	16	11	26	1,008	36	612
7	2,862	17	1,995	27	2,331	37	377
8	1,161	18	603	28	1,520	38	1,094
9	4,638	19	3,629	29	990	39	<10
10	3,665	20	559	30	3,469	40	1,060

## State House of Delegates

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	464	26	35	51	<10	76	669
2	967	27	2,456	52	22	77	118
3	620	28	764	53	<10	78	486
4	562	29	742	54	781	79	1,510
5	573	30	372	55	1,577	80	63
6	424	31	1,006	56	1,377	81	1,157
7	955	32	1,224	57	1,501	82	<10
8	1,054	33	178	58	270	83	1,133
9	1,019	34	3,796	59	479	84	<10
10	2,141	35	2,236	60	401	85	<10
11	1,465	36	1,579	61	684	86	<10
12	88	37	525	62	1,270	87	<10
13	1,713	38	1,541	63	267	88	10
14	611	39	1,511	64	993	89	144
15	951	40	367	65	64	90	<10
16	195	41	160	66	64	91	920
17	101	42	195	67	854	92	254
18	1,242	43	431	68	2,095	93	716
19	772	44	177	69	1,680	94	1,273
20	1,106	45	2,131	70	<10	95	<10
21	3,810	46	<10	71	288	96	167
22	1,078	47	1,760	72	571	97	487
23	161	48	553	73	<10	98	436
24	373	49	<10	74	656	99	618
25	1,694	50	76	75	241	100	261



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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](mailto:policy@e4thefuture.org)