

West Virginia

Energy Efficiency Jobs in America

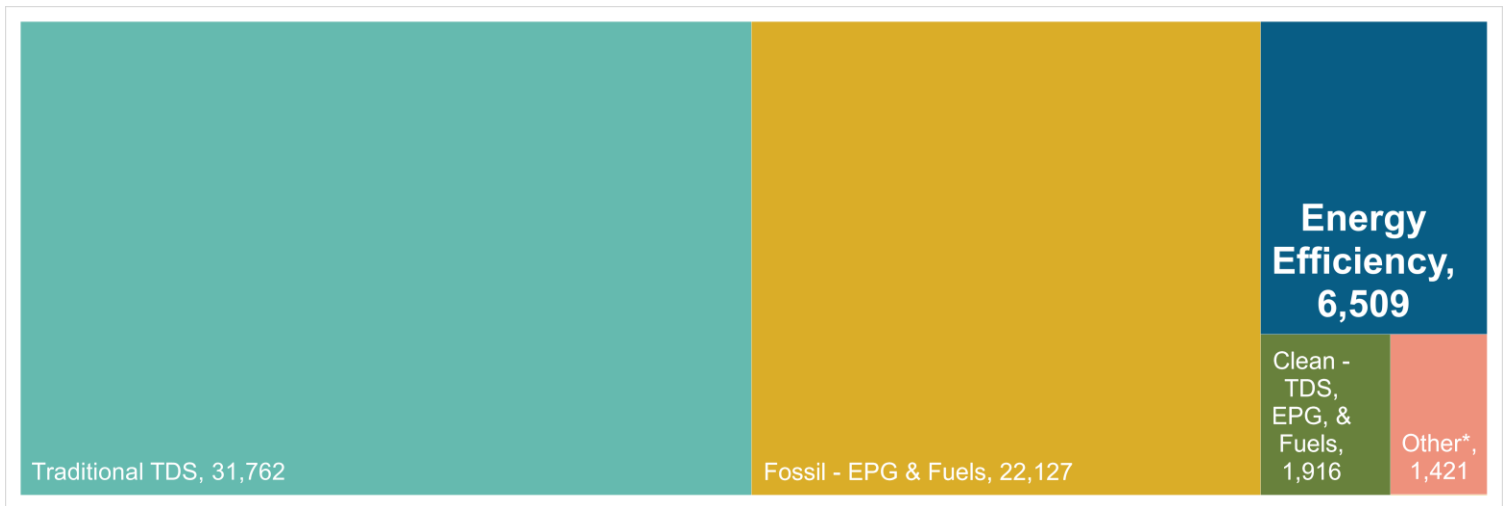
6,509
Total Jobs

Energy efficiency (EE) workers are crucial to America’s workforce. EE jobs are everywhere – in rural, urban, and suburban communities.

Investing in EE is a highly cost-effective way to improve the reliability of the electric grid, reduce harmful emissions, and make other renewable energy resources, such as solar and wind, more valuable. Efficiency measures also lower household energy bills while creating high-quality, local jobs that cannot be outsourced.

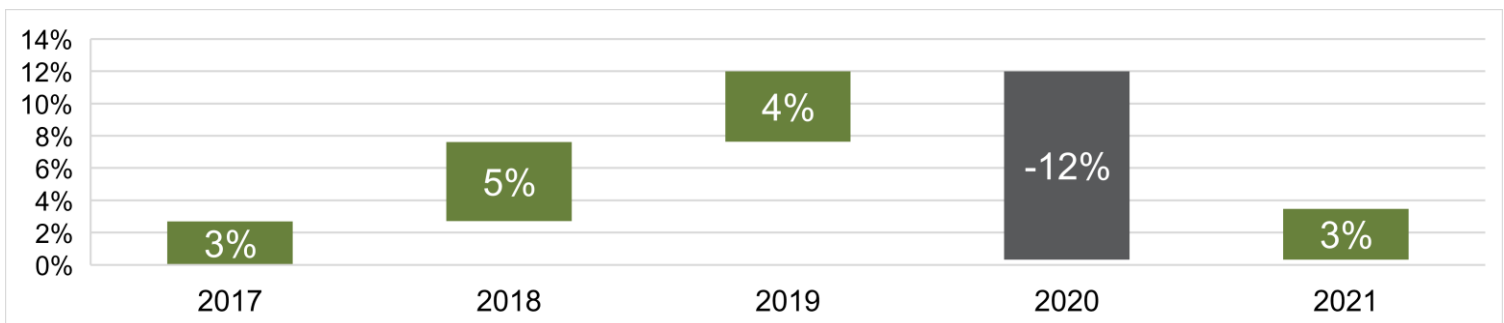
How do West Virginia’s energy sectors compare?

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



TDS = Transmission, Distribution & Storage
 EPG = Electric Power Generation
 Nuclear (EPG & Fuels), < 15
 *Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

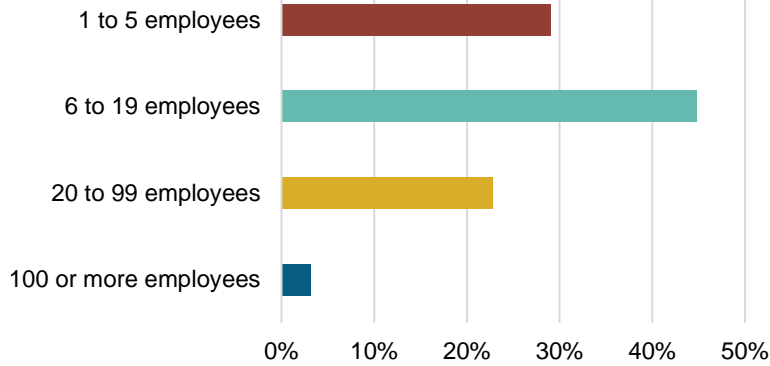
How is the EE industry growing in West Virginia?



Prior to 2020, the EE sector was growing steadily each year, but suffered heavy job losses in the COVID-19 pandemic. The EE industry has made a strong recovery, but job gains have been slower than in the U.S. workforce overall. As we invest in EE, a focus on workforce development is vital to ensure a strong efficiency industry for years to come.

What does EE look like in West Virginia?

96.8% of WV EE Businesses Have Fewer Than 100 Employees



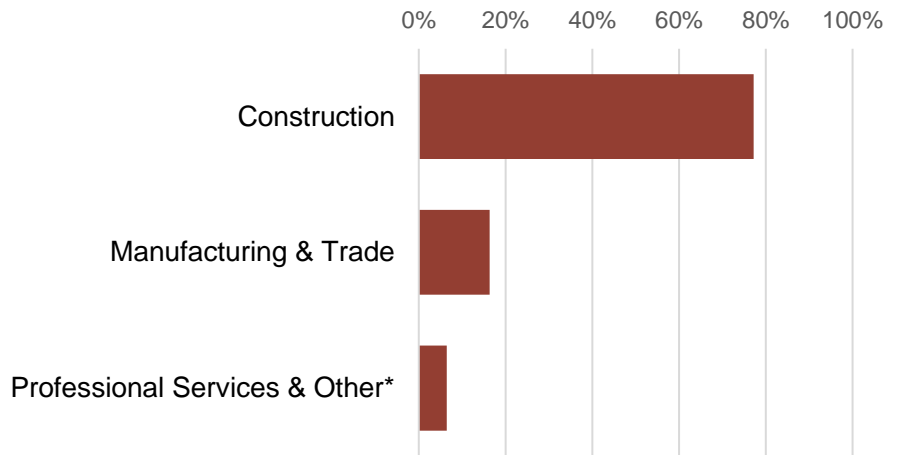
713
EE businesses in
West Virginia



EE construction workers comprise **16%** of West Virginia's construction workforce

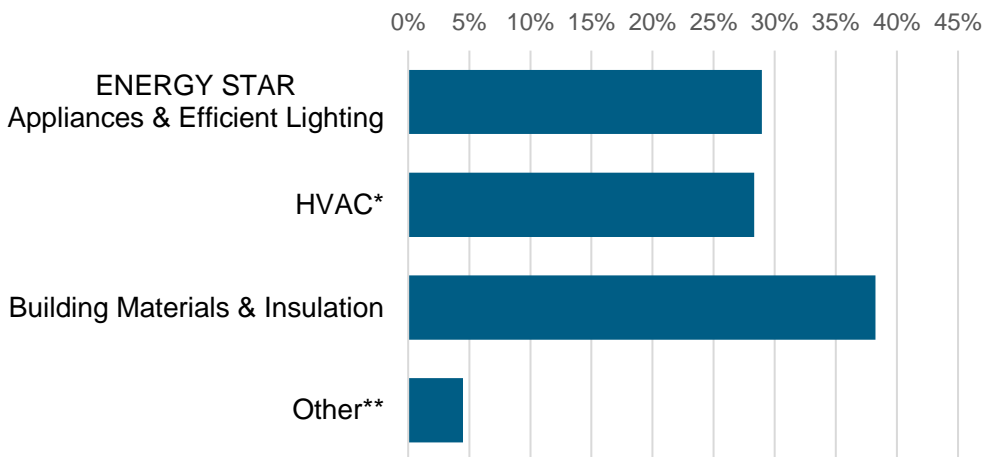


What type of work do energy efficiency firms do?



*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?



16%
of West Virginia
EE workers are
Veterans

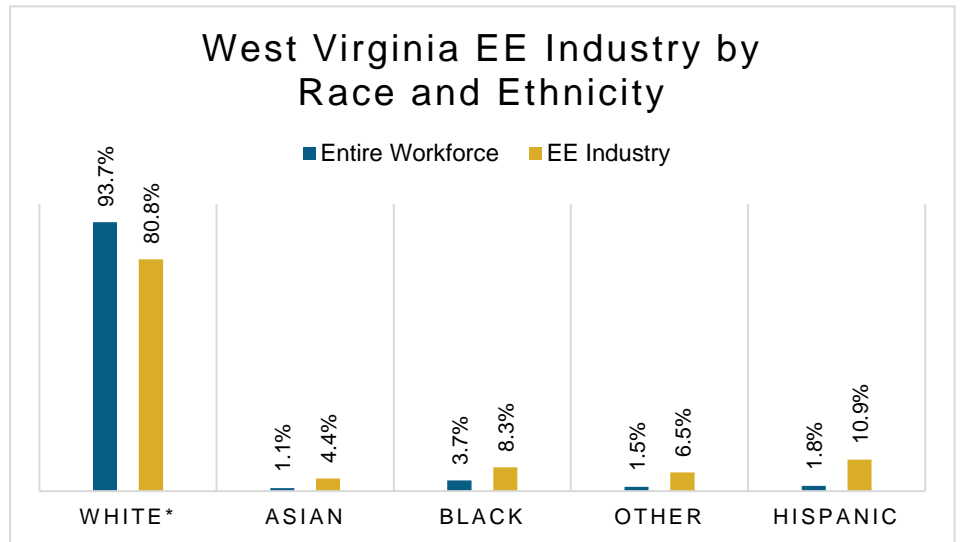


*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

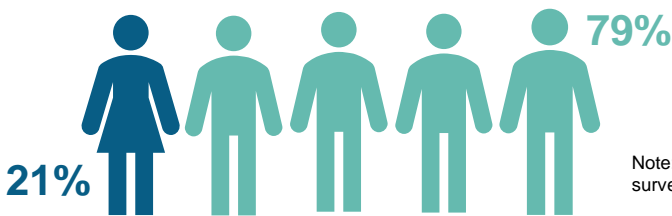
How is EE doing on diversity in West Virginia?

Demographic data is critical to measure progress in the EE industry. In striving for more diversity in EE jobs, we can create a stronger industry 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.

West Virginia's EE Potential


Decades of work ready for West Virginia's growing energy efficiency workforce.

Weatherization Assistance Program:



511* units weatherized in 2018, out of **~120,000** total low-income households

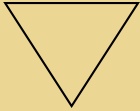
648,265 West Virginia homes are due for energy tune-ups



(Non low-income families whose residences are 20+ years old)

Potential to **reduce** residential electricity consumption by

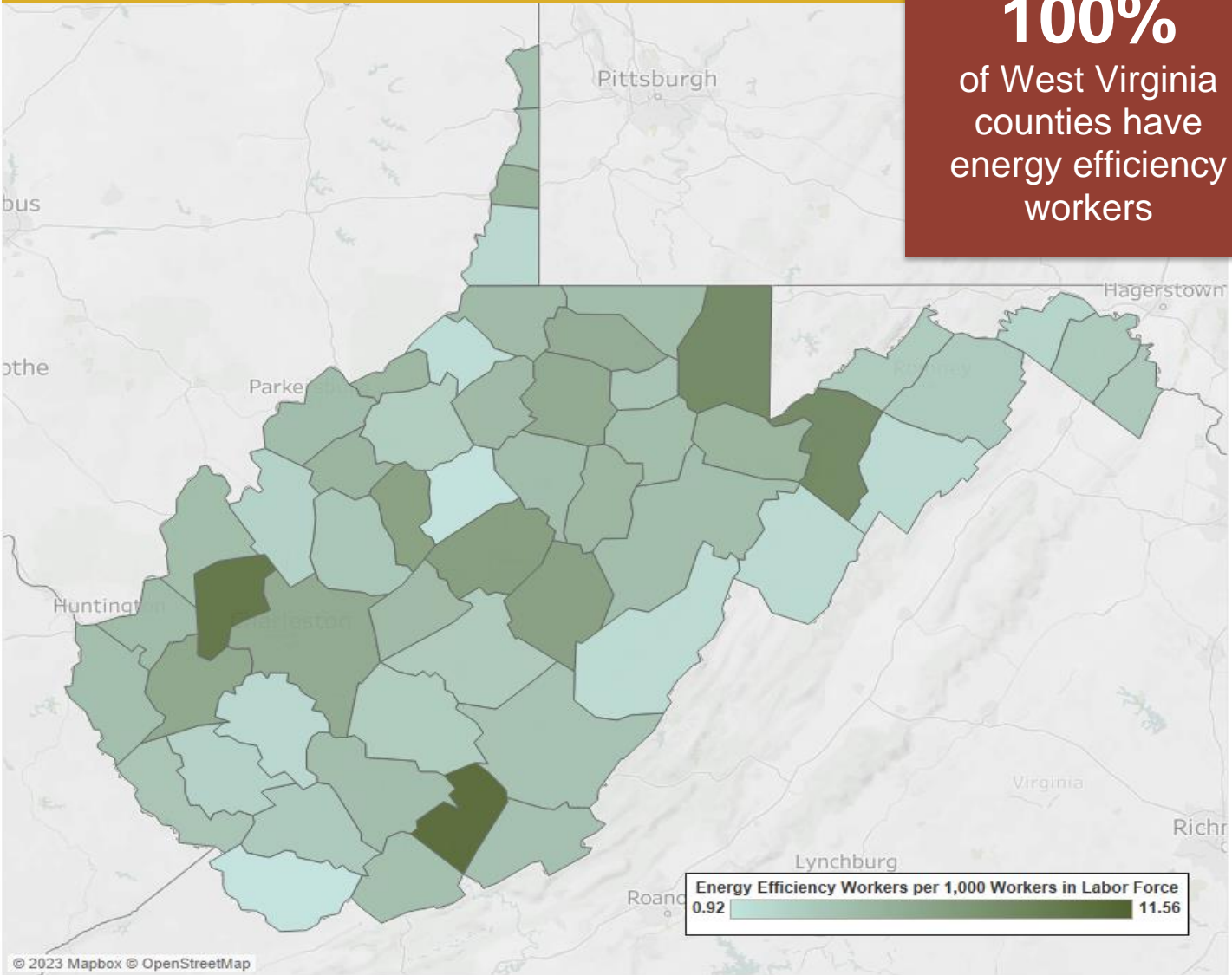
43%



*National Association for State community Services Programs (NASCS) [Weatherization Assistance Program Annual Funding Survey](#)
Source: E4TheFuture/BW Research retrofit analysis, July 2021, [U.S. Census Bureau QuickFacts](#) and [State and Local Planning for Energy \(SLOPE\) Platform](#)

Energy Efficiency Jobs are Everywhere

EE Jobs by County



Metropolitan Areas			
Area	Jobs	Area	Jobs
Charleston	838	Washington-Arlington-Alexandria	2,249
Cumberland	46	Weirton-Steubenville	108
Hagerstown-Martinsburg	264	Wheeling	219
Huntington-Ashland	315	Winchester	63
Morgantown	357	Rural	1,740
Parkersburg-Marietta-Vienna	312		

Jobs by County

County	Jobs	County	Jobs	County	Jobs	County	Jobs
Barbour County	35	Hancock County	76	Mineral County	51	Ritchie County	18
Berkeley County	222	Hardy County	21	Mingo County	32	Roane County	21
Boone County	19	Harrison County	427	Monongalia County	511	Summers County	53
Braxton County	50	Jackson County	40	Monroe County	16	Taylor County	24
Brooke County	51	Jefferson County	103	Morgan County	14	Tucker County	29
Cabell County	452	Kanawha County	1,102	Nicholas County	43	Tyler County	<10
Calhoun County	16	Lewis County	51	Ohio County	273	Upshur County	72
Clay County	12	Lincoln County	30	Pendleton County	<10	Wayne County	72
Doddridge County	14	Logan County	53	Pleasants County	23	Webster County	25
Fayette County	63	McDowell County	<10	Pocahontas County	11	Wetzel County	41
Gilmer County	<10	Marion County	196	Preston County	127	Wirt County	<10
Grant County	61	Marshall County	44	Putnam County	434	Wood County	308
Greenbrier County	97	Mason County	50	Raleigh County	260	Wyoming County	29
Hampshire County	26	Mercer County	150	Randolph County	88	N/A	446



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: Unless otherwise stated, all data are from the U.S. Energy and Employment Report, June 2022, by the U.S. Department of Energy (see Appendix C 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.