

Pennsylvania

Energy Efficiency Jobs in America

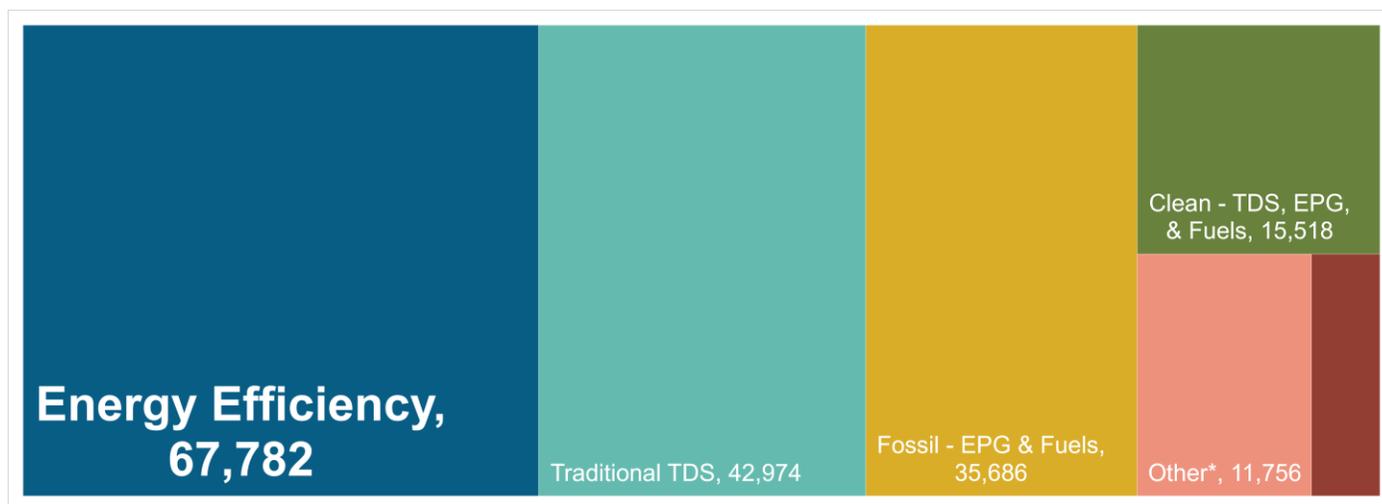
67,782
Total Jobs

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 Pennsylvania's energy sectors compare?

Energy Efficiency is the **largest** energy sector in Pennsylvania

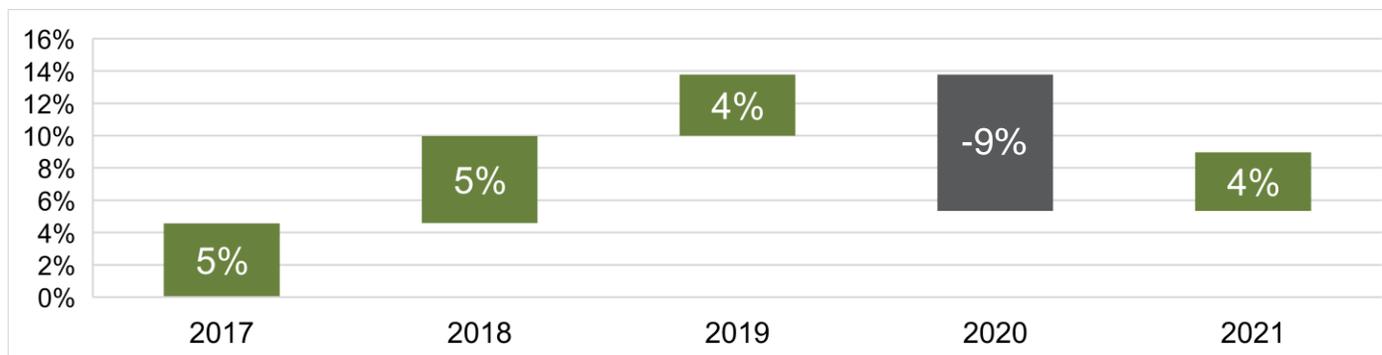


TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

Nuclear (EPG & Fuels), 4,640

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

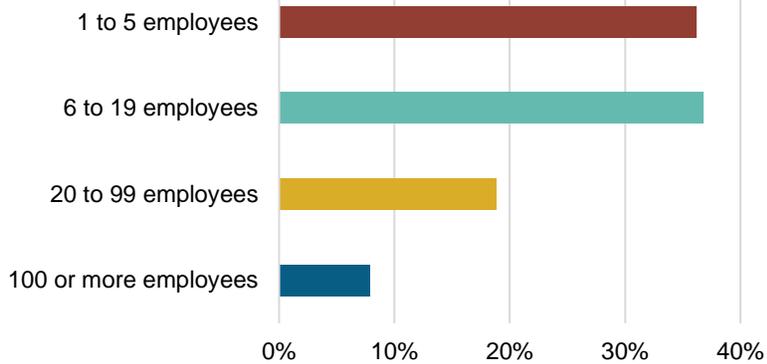
How is the EE industry growing in Pennsylvania?



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 Pennsylvania?

91.9% of PA EE Businesses Have Fewer Than 100 Employees



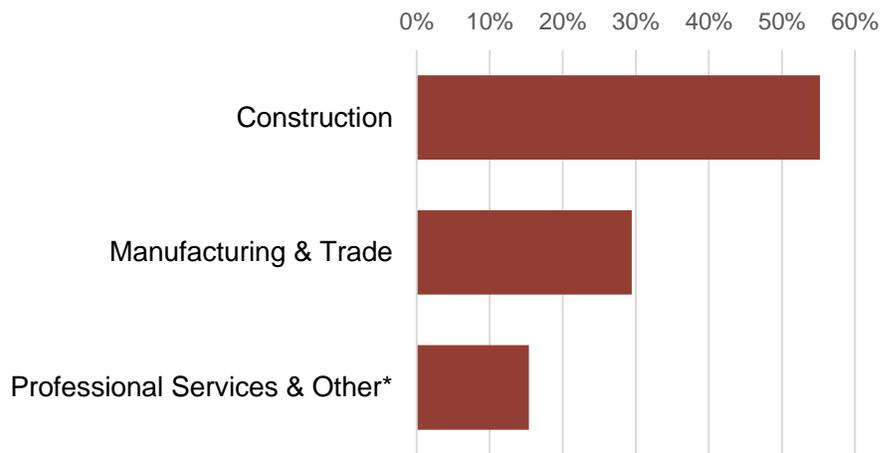
10,348
EE businesses in Pennsylvania



EE construction workers comprise **15%** of Pennsylvania's construction workforce

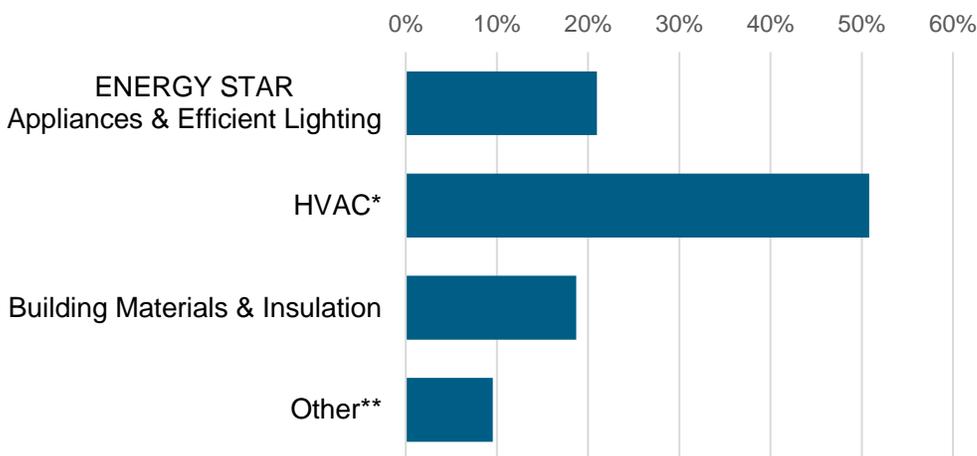


What type of work do energy efficiency firms do?



*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

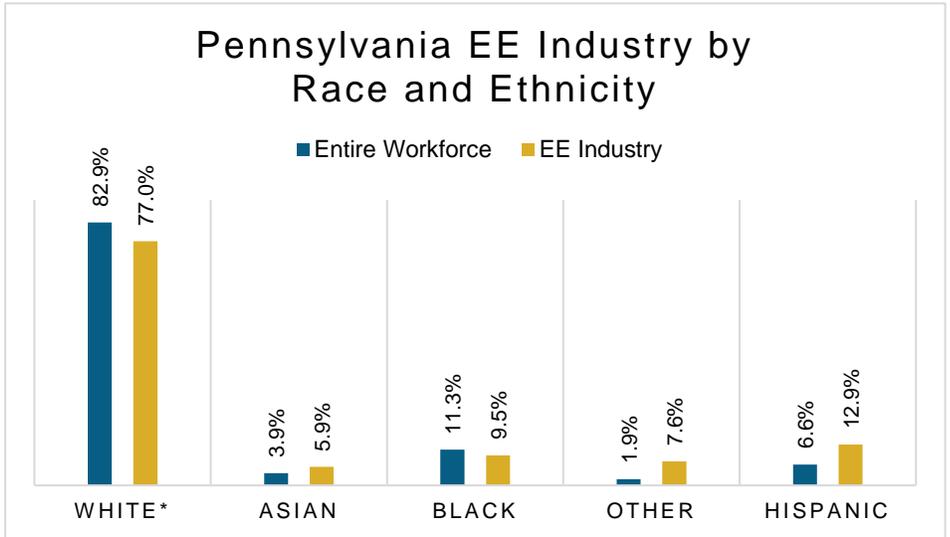
11%
of Pennsylvania EE workers are **Veterans**



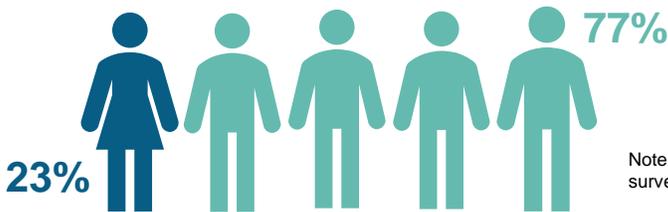
How is EE doing on diversity in Pennsylvania?

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 Pennsylvania 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.

Pennsylvania's EE Potential

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

Weatherization Assistance Program:



4,312* units weatherized in 2018, out of **~63,000** total low-income households

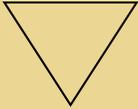
4,993,961 Pennsylvania homes are due for energy tune-ups



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

Potential to **reduce** residential electricity consumption by

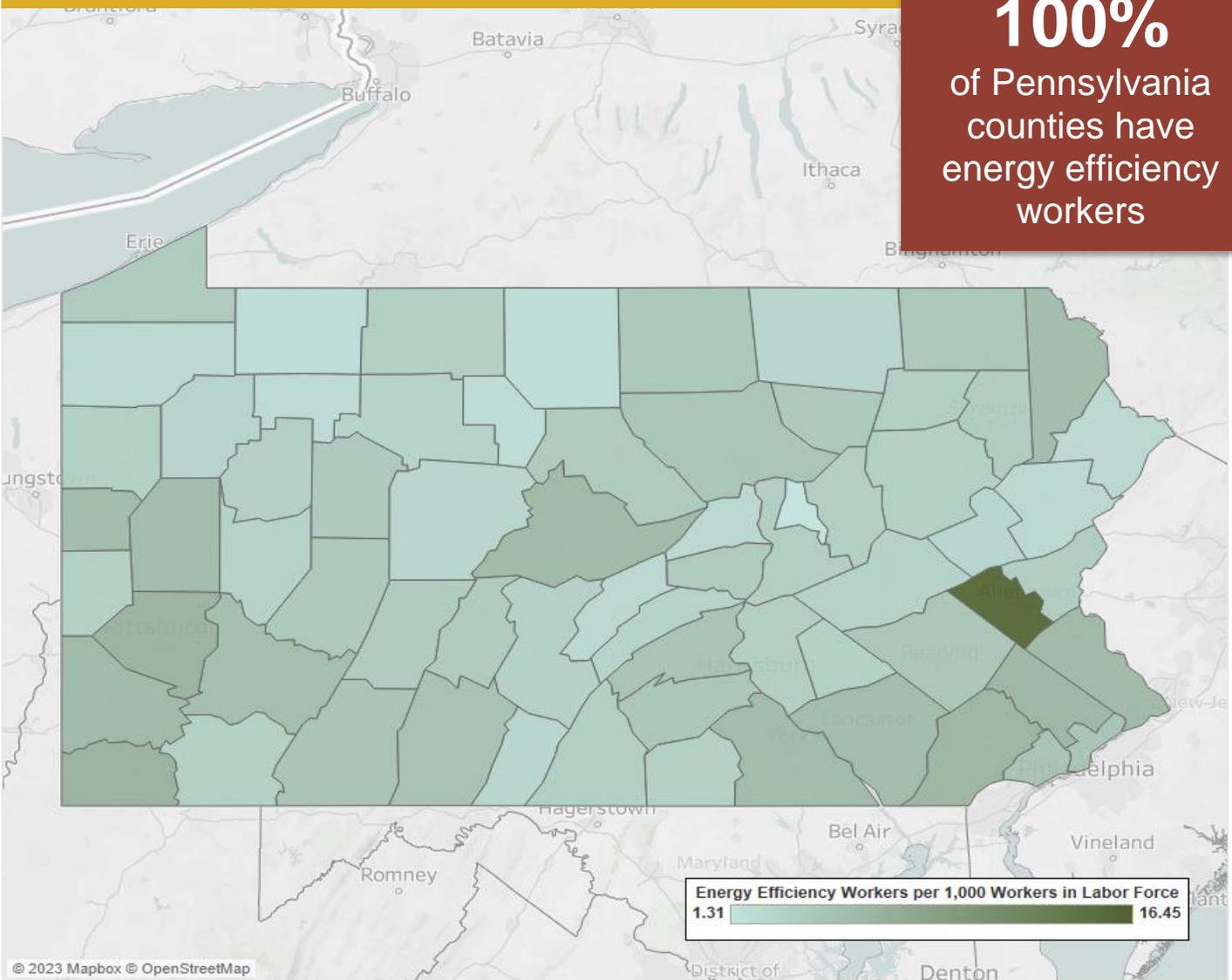
14%



*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



100%
of Pennsylvania
counties have
energy efficiency
workers

Energy Efficiency Workers per 1,000 Workers in Labor Force
1.31 ————— 16.45

Metropolitan Areas			
Area	Jobs	Area	Jobs
Allentown-Bethlehem-Easton	3,277	Pittsburgh	12,813
Altoona	624	Reading	2,739
Erie	1,266	Scranton--Wilkes-Barre	2,733
Harrisburg-Carlisle	2,839	State College	670
Johnstown	454	Williamsport	605
Lancaster	2,817	York-Hanover	1,825
Lebanon	567	Youngstown-Warren-Boardman	401
New York-Northern New Jersey-Long Island	4,040	Rural	8,208
Philadelphia-Camden-Wilmington	21,905		

Jobs by County

County	Jobs	County	Jobs	County	Jobs	County	Jobs
Adams County	253	Clinton County	106	Lackawanna County	788	Pike County	66
Allegheny County	9,374	Columbia County	187	Lancaster County	3,093	Potter County	21
Armstrong County	110	Crawford County	157	Lawrence County	342	Schuylkill County	345
Beaver County	382	Cumberland County	1,357	Lebanon County	381	Snyder County	138
Bedford County	178	Dauphin County	1,453	Lehigh County	6,530	Somerset County	241
Berks County	1,641	Delaware County	2,360	Luzerne County	1,099	Sullivan County	13
Blair County	517	Elk County	92	Lycoming County	492	Susquehanna County	85
Bradford County	130	Erie County	1,038	McKean County	112	Tioga County	122
Bucks County	3,507	Fayette County	289	Mercer County	334	Union County	96
Butler County	1,072	Forest County	<10	Mifflin County	89	Venango County	108
Cambria County	414	Franklin County	469	Monroe County	316	Warren County	55
Cameron County	<10	Fulton County	30	Montgomery County	6,748	Washington County	1,111
Carbon County	95	Greene County	168	Montour County	43	Wayne County	184
Centre County	721	Huntingdon County	90	Northampton County	965	Westmoreland County	1,542
Chester County	3,471	Indiana County	247	Northumberland County	214	Wyoming County	74
Clarion County	91	Jefferson County	133	Perry County	85	York County	2,297
Clearfield County	174	Juniata County	43	Philadelphia County	7,135	N/A	2,154



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.