

# Pennsylvania

Energy Efficiency Jobs in America

72,913  
Total Jobs

## What are EE jobs?

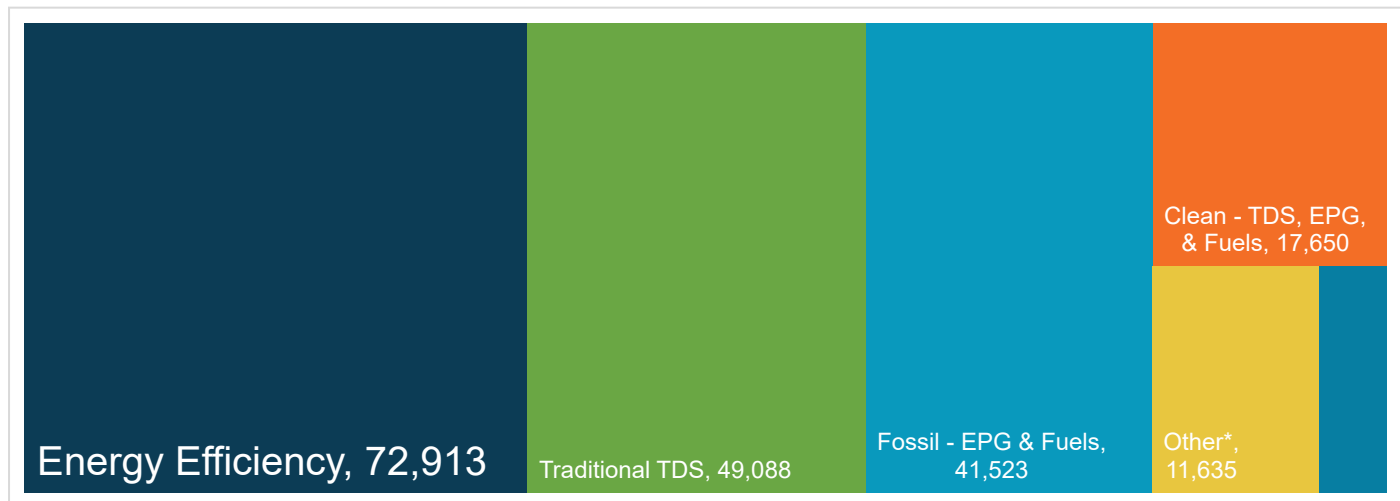
*Jobs that deliver goods and services that lower energy use by improving energy efficiency with a focus on appliances, buildings, data systems, financing, new technologies, and more.*

## 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 Pennsylvania?

*Energy efficiency is the largest energy sector in Pennsylvania.*



TDS = Transmission, Distribution & Storage

EPG = Electric Power Generation

Nuclear (EPG & Fuels) = 4,766

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

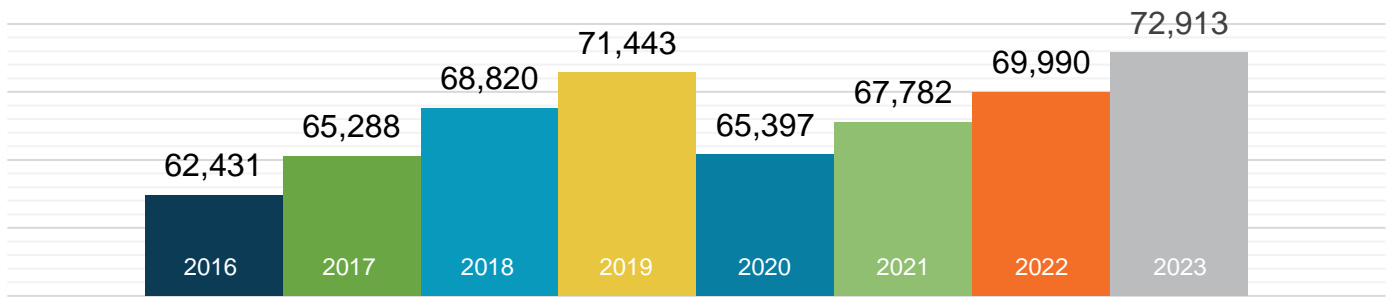
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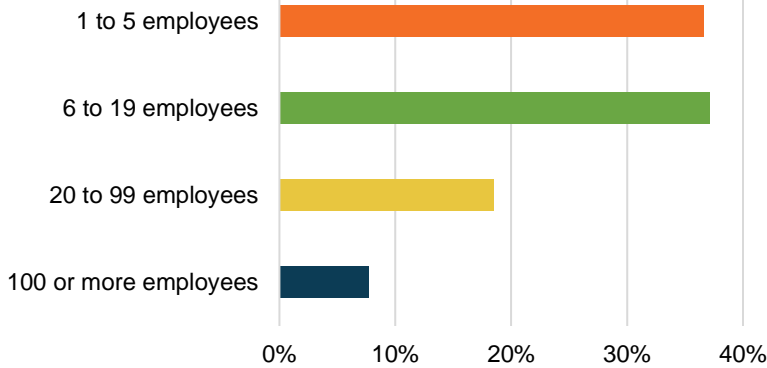
E4 THE FUTURE

# What does EE look like in Pennsylvania?

## EE Workers Employed in PA



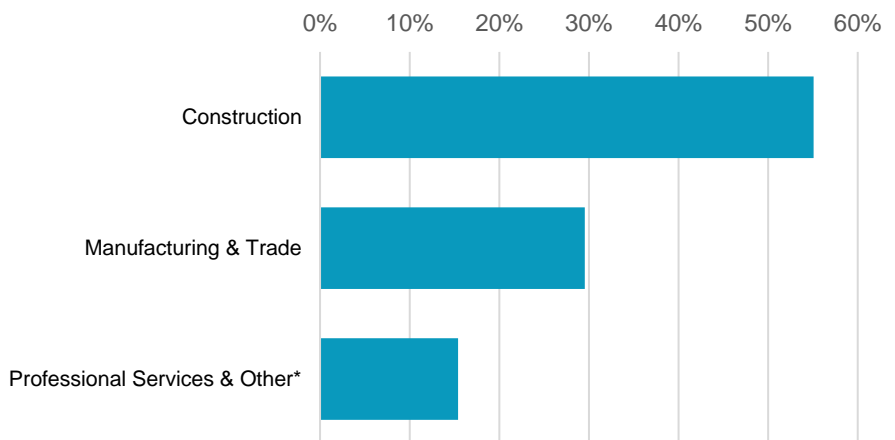
## 92.3% of PA EE Businesses Have Fewer Than 100 Employees



EE construction workers comprise **16%** of Pennsylvania's construction workforce

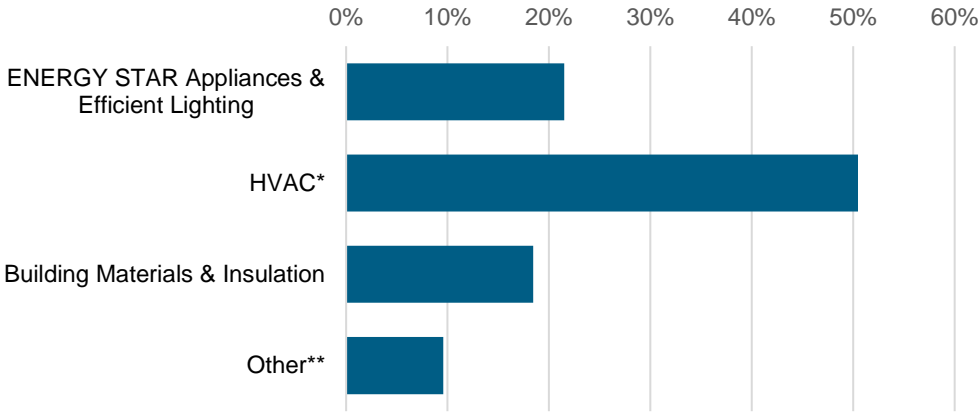


## What type of work do energy efficiency firms do?

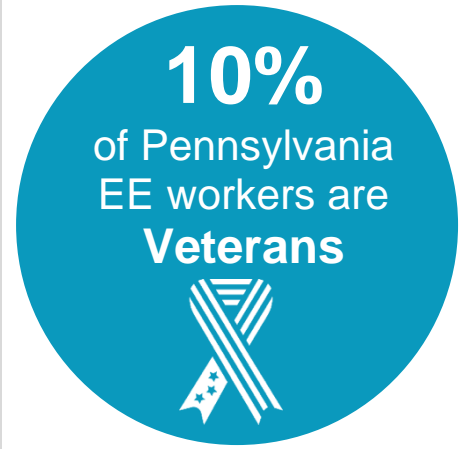


\*Professional services include finance/accounting, architecture, engineering, R&D, etc. and other includes maintenance, and business, and nonprofit organizations.

### 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

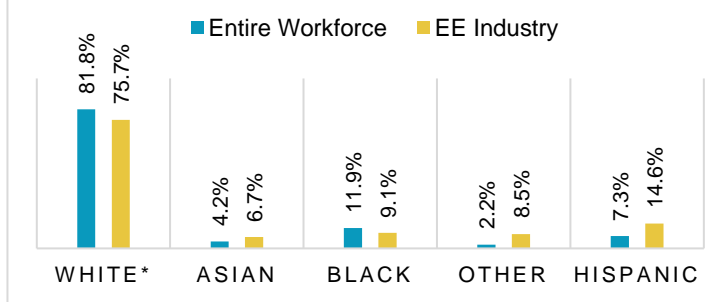


## How is EE doing on diversity in Pennsylvania?

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 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 Pennsylvania businesses.

### Pennsylvania EE Industry by Race and Ethnicity



\*Includes non-Hispanic and Hispanic whites.

### Gender in the Pennsylvania EE Workforce

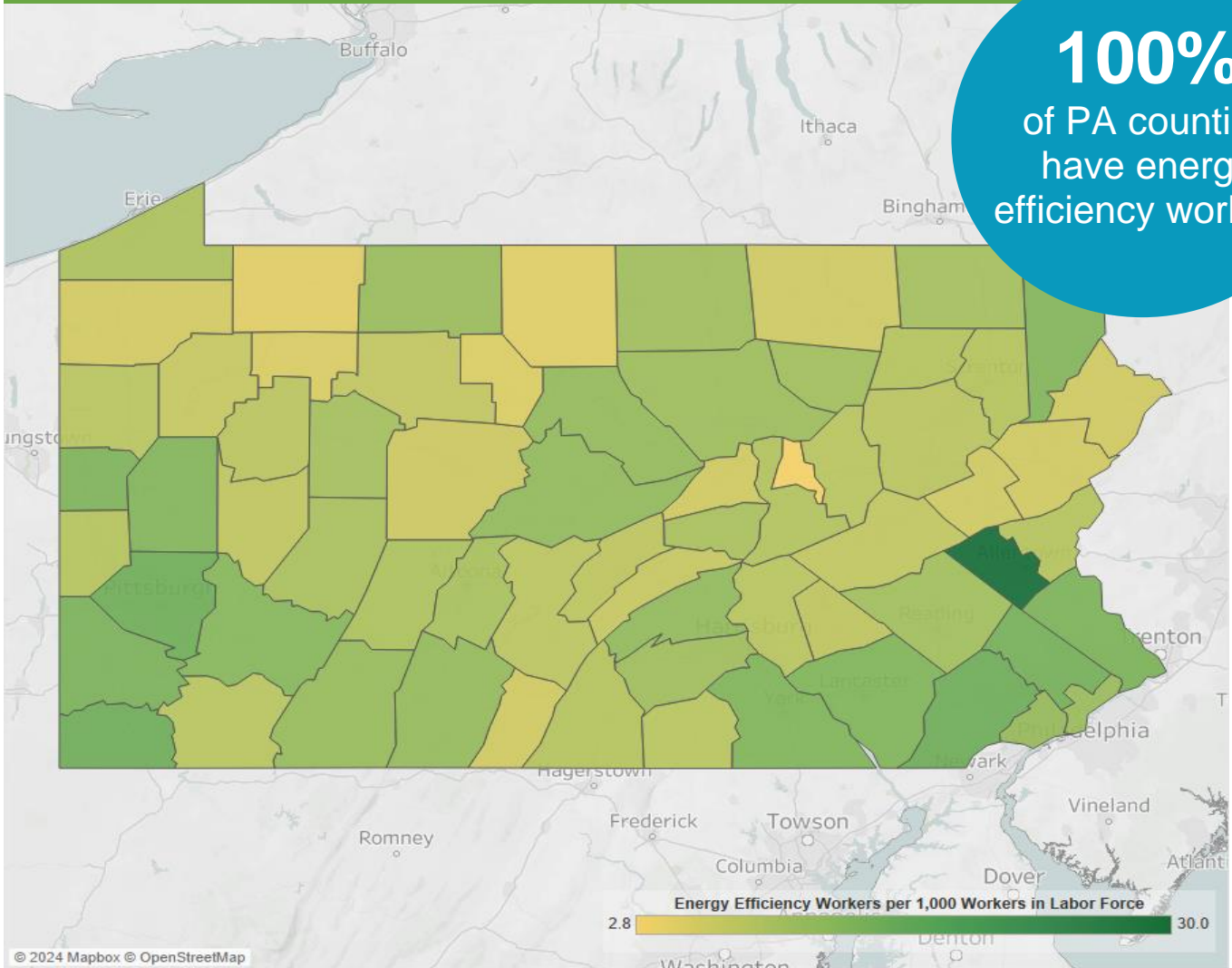


Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Non-binary gender data is missing from this document due to this limitation.



# Energy Efficiency Jobs are Everywhere

## EE Jobs by County



**100%**  
of PA counties  
have energy  
efficiency workers

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	4,878	10	4,309	Allentown-Bethlehem-Easton	8,253	Pittsburgh	14,841
2	3,465	11	2,916	Altoona	549	Reading	1,748
3	4,705	12	5,160	Erie	1,104	Scranton--Wilkes-Barre--Hazleton	2,086
4	4,582	13	1,122	Harrisburg-Carlisle	3,081	State College	789
5	2,854	14	5,125	Johnstown	440	Williamsport	523
6	7,484	15	4,934	Lancaster	3,359	York-Hanover	2,473
7	5,156	16	2,547	Lebanon	405	Youngstown-Warren-Boardman	355
8	5,650	17	1,828	New York-Newark-Jersey City	71	Rural	7,804
9	4,032	18	2,166	Philadelphia-Camden-Wilmington	25,032		



## State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	3,947	14	1,743	27	939	40	770
2	1,060	15	1,837	28	1,905	41	1,443
3	291	16	2,035	29	795	42	2,416
4	1,440	17	2,634	30	2,008	43	583
5	192	18	1,239	31	1,287	44	316
6	3,231	19	1,409	32	1,213	45	384
7	1,371	20	1,246	33	697	46	1,210
8	426	21	1,835	34	1,039	47	1,100
9	3,614	22	1,423	35	883	48	590
10	2,017	23	1,603	36	883	49	1,416
11	2,452	24	847	37	3,682	50	821
12	1,008	25	1,135	38	1,591		
13	2,385	26	547	39	1,974		

## State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	608	52	192	103	845	154	148
2	524	53	920	104	375	155	382
3	238	54	1,179	105	<10	156	1,799
4	96	55	421	106	<10	157	361
5	848	56	32	107	597	158	287
6	385	57	89	108	39	159	492
7	379	58	90	109	124	160	46
8	577	59	313	110	253	161	773
9	419	60	228	111	503	162	417
10	316	61	1,027	112	805	163	561
11	252	62	329	113	361	164	<10
12	481	63	242	114	110	165	349
13	626	64	265	115	511	166	<10
14	333	65	231	116	486	167	<10
15	506	66	331	117	285	168	14
16	320	67	177	118	385	169	49
17	15	68	620	119	440	170	189
18	682	69	242	120	22	171	26
19	2,411	70	917	121	81	172	408
20	779	71	308	122	245	173	<10
21	440	72	172	123	311	174	<10
22	694	73	247	124	193	175	2,064
23	153	74	315	125	175	176	125
24	303	75	299	126	329	177	138
25	616	76	908	127	33	178	64
26	834	77	51	128	315	179	168
27	871	78	404	129	50	180	<10
28	271	79	572	130	207	181	58
29	906	80	54	131	793	182	1,724
30	25	81	131	132	443	183	137
31	932	82	503	133	615	184	204
32	364	83	562	134	238	185	79
33	161	84	202	135	122	186	59
34	274	85	258	136	367	187	1,242
35	496	86	389	137	270	188	78
36	199	87	875	138	249	189	27
37	1,771	88	176	139	233	190	58
38	59	89	456	140	793	191	<10
39	565	90	13	141	82	192	20
40	660	91	541	142	502	193	340
41	358	92	320	143	999	194	238
42	<10	93	475	144	65	195	<10
43	630	94	52	145	19	196	12
44	362	95	<10	146	168	197	<10
45	39	96	<10	147	102	198	47
46	132	97	<10	148	1,050	199	<10
47	1,062	98	271	149	1,023	200	<10
48	51	99	113	150	19	201	26
49	545	100	147	151	531	202	<10
50	111	101	546	152	366	203	<10
51	202	102	84	153	310		





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](http://www.E4TheFuture.org).



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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](mailto:communications@building-performance.org)

