Pennsylvania

Energy Efficiency Jobs in America

76,132
Total Jobs

What are EE jobs?

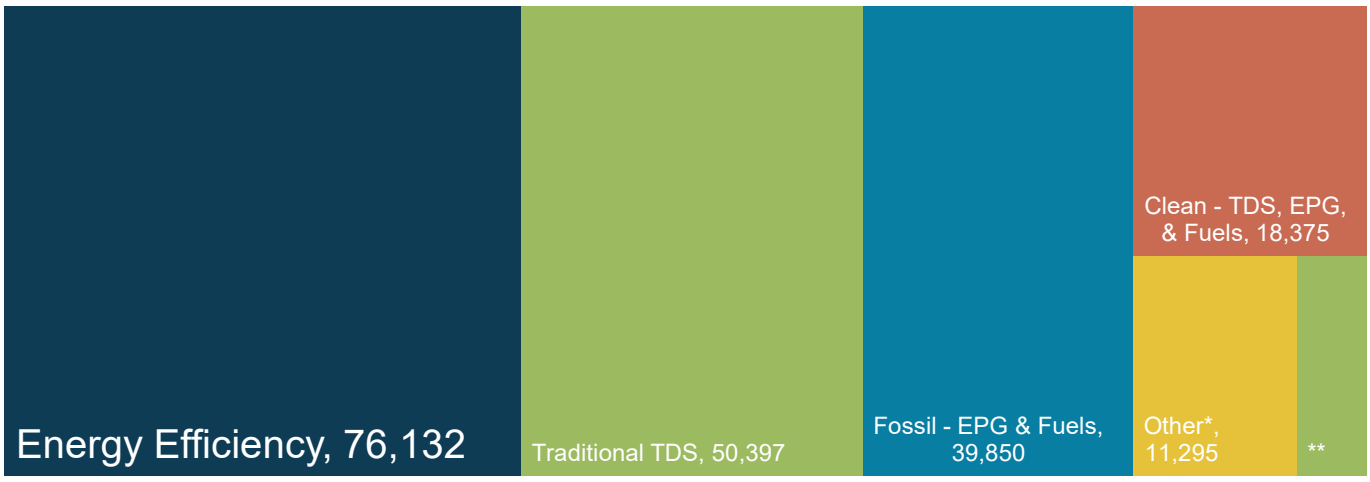
Jobs that reduce energy use by improving efficiency in appliances, buildings, data systems, financing, new technologies, and more.

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, as well as 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 to other energy sectors in Pennsylvania?

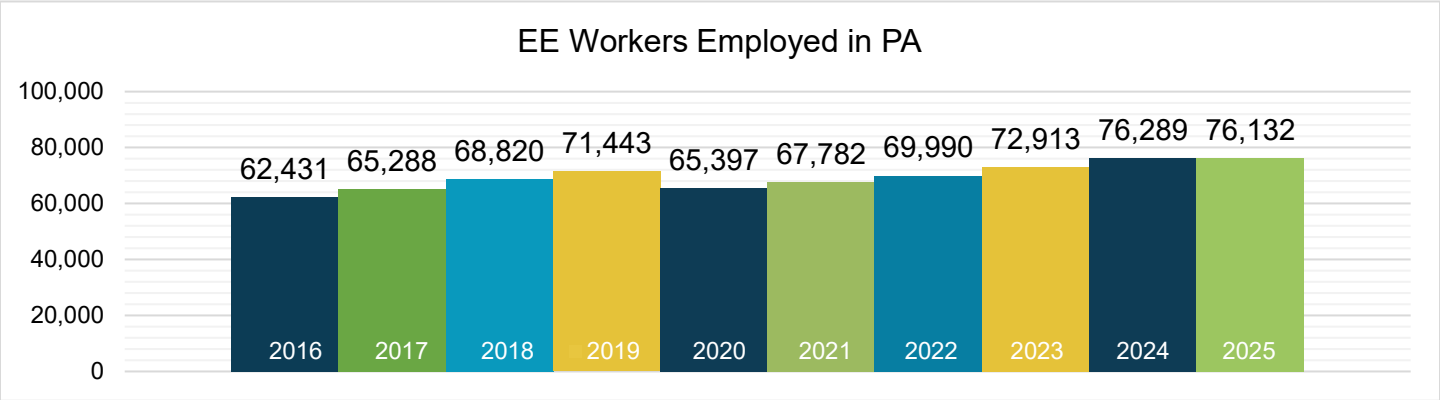
Energy efficiency is the largest energy sector in Pennsylvania.

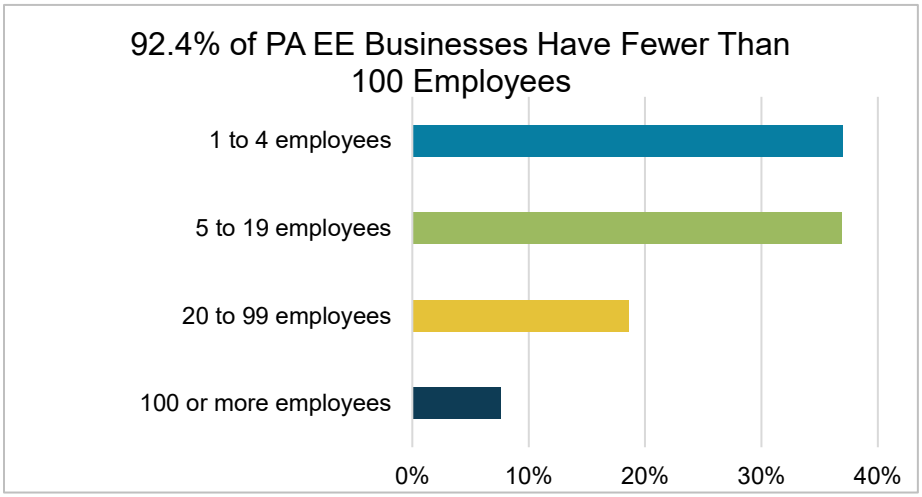


TDS = Transmission, Distribution, & Storage
EPG = Electric Power Generation
**Nuclear - EPG & Fuels = 4,839
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by:

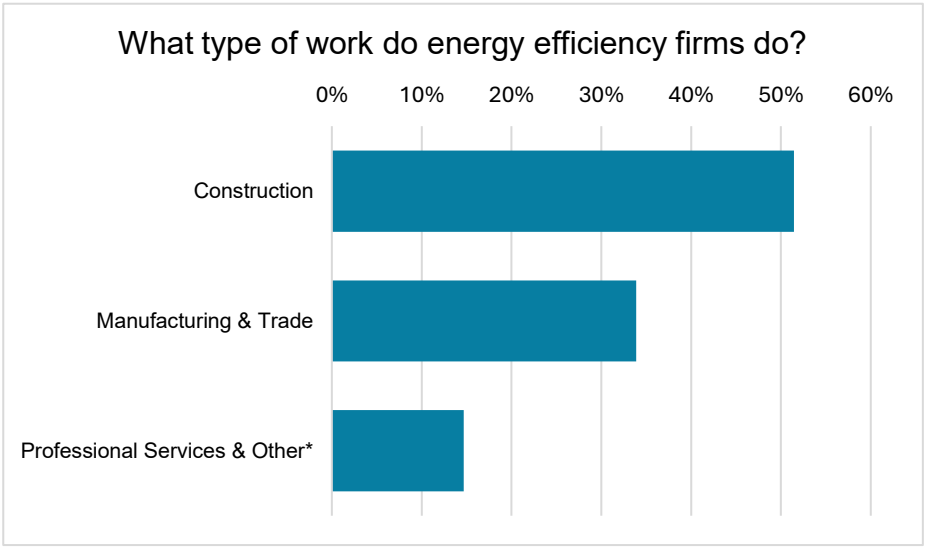
What does EE look like in Pennsylvania?



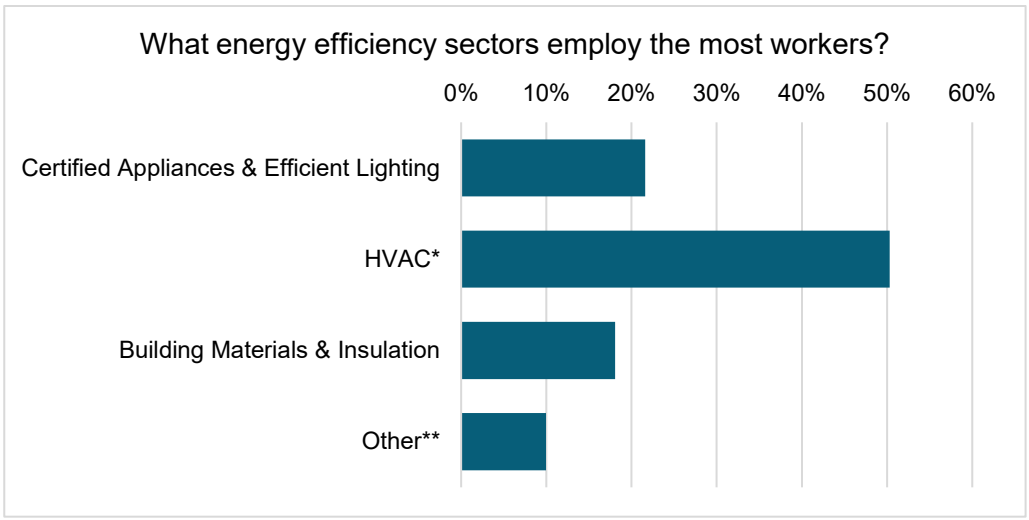


10,869
EE businesses in Pennsylvania

EE construction workers comprise **13%** of Pennsylvania's construction workforce



*Professional services include finance, accounting, architecture, engineering, research and development, and more. The "other" category includes roles in maintenance, business operations, and nonprofit organizations.



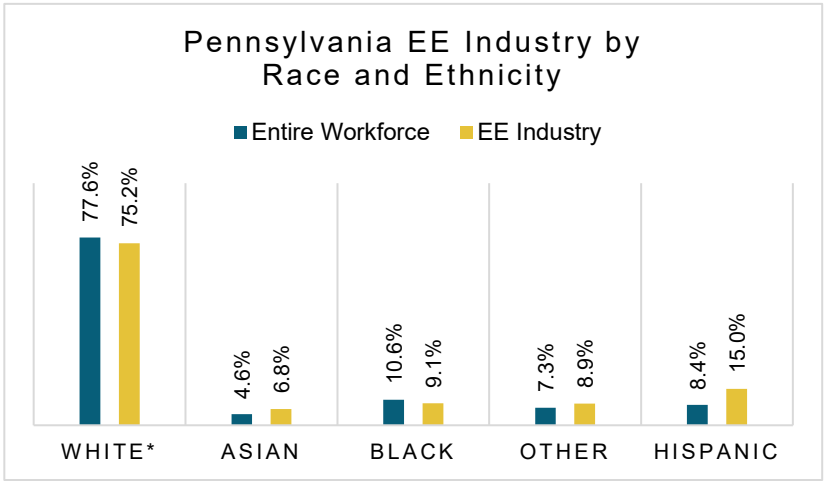
10%
of Pennsylvania EE workers are **veterans**

Certified Appliances = ENERGY STAR-certified appliances
*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating and cooling
**Other includes energy audits, building certifications, and software services

How representative is the EE workforce in Pennsylvania?

Demographic data is critical to measure progress towards a more representative EE workforce. Tracking this data helps show how well Pennsylvania's EE workforce reflects the communities it serves and where gaps remain.

Expanded training programs in Pennsylvania can help ensure energy efficiency careers are accessible to all.



*Includes non-Hispanic and Hispanic whites.

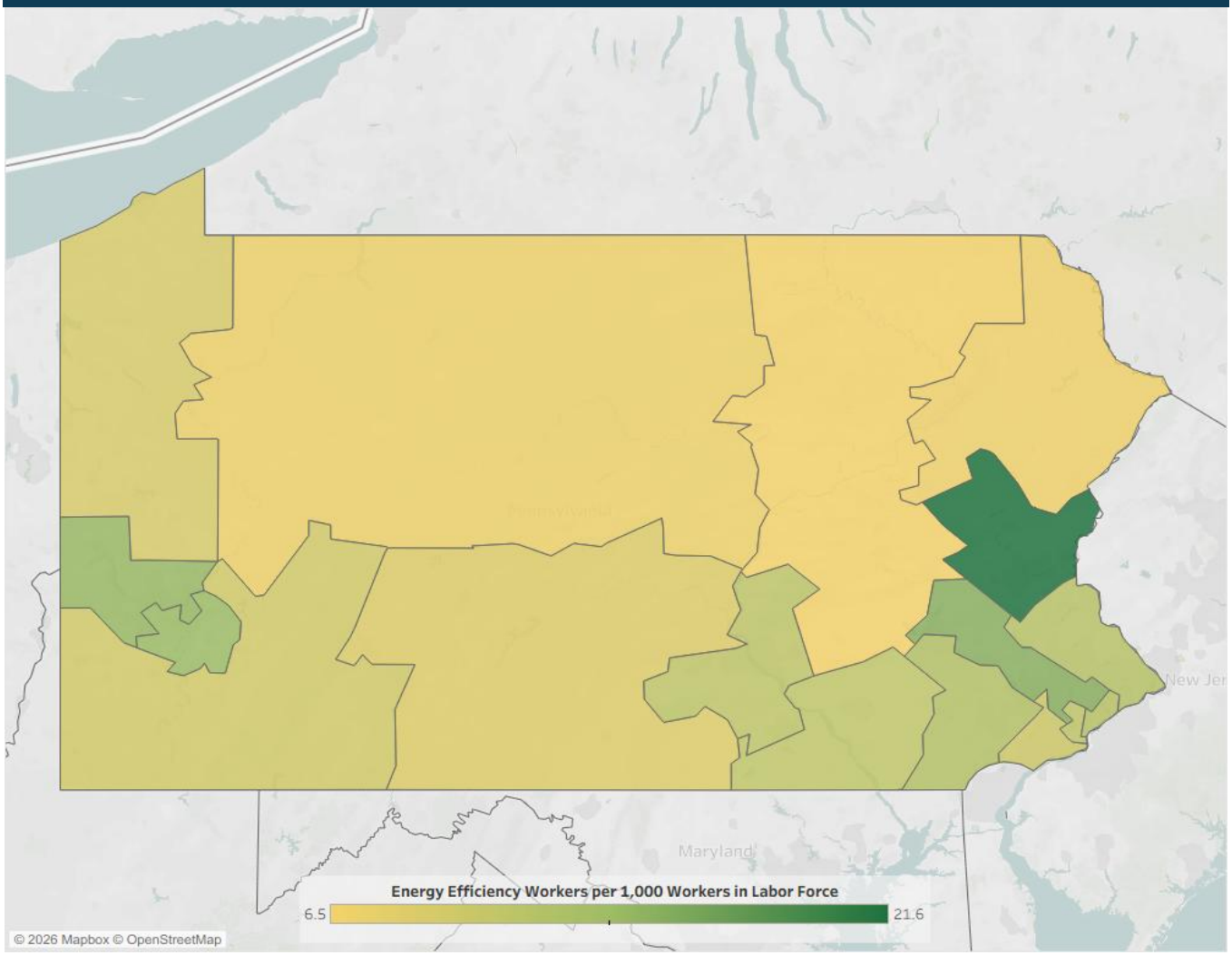
Gender in the Pennsylvania EE Workforce



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

Energy efficiency jobs are everywhere

EE Jobs by Congressional District



Congressional				Metropolitan Areas			
District	Jobs	District	Jobs	Area	Jobs	Area	Jobs
1	4,985	10	4,549	Allentown-Bethlehem-Easton	8,433	Pittsburgh	15,249
2	4,287	11	4,453	Altoona	550	Reading	1,751
3	4,544	12	5,756	Erie	1,107	Scranton--Wilkes-Barre--Hazleton	2,091
4	6,448	13	3,163	Harrisburg-Carlisle	3,095	State College	792
5	3,995	14	3,523	Johnstown	441	Williamsport	536
6	5,059	15	2,535	Lancaster	3,366	York-Hanover	2,480
7	8,715	16	3,291	Lebanon	406	Youngstown-Warren-Boardman	356
8	2,575	17	5,852	New York-Newark-Jersey City	71	Rural	8,509
9	2,403			Philadelphia-Camden-Wilmington	26,900		

State Senate

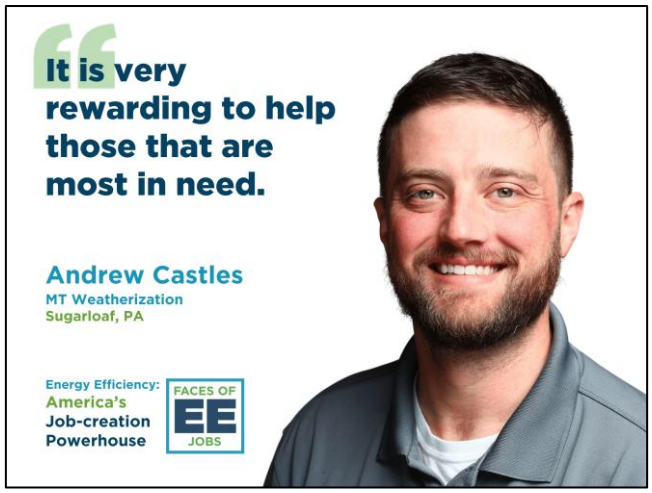
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	1,070	14	4,919	27	838	40	795
2	1,474	15	1,523	28	1,657	41	878
3	1,454	16	3,118	29	729	42	2,288
4	1,892	17	2,086	30	914	43	2,168
5	1,280	18	1,337	31	1,358	44	1,853
6	1,646	19	1,772	32	855	45	2,275
7	1,463	20	822	33	867	46	1,501
8	1,238	21	1,076	34	1,470	47	998
9	1,378	22	983	35	905	48	964
10	1,788	23	997	36	1,836	49	1,150
11	1,222	24	2,201	37	1,741	50	878
12	2,851	25	1,188	38	2,334		
13	1,674	26	1,253	39	1,332		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	304	52	151	103	286	154	446
2	201	53	995	104	426	155	627
3	344	54	758	105	315	156	840
4	294	55	387	106	396	157	335
5	212	56	413	107	178	158	261
6	168	57	350	108	175	159	284
7	240	58	295	109	214	160	202
8	295	59	272	110	187	161	266
9	303	60	104	111	242	162	346
10	514	61	208	112	255	163	272
11	528	62	235	113	318	164	351
12	360	63	185	114	234	165	362
13	491	64	151	115	126	166	299
14	150	65	107	116	231	167	363
15	215	66	205	117	193	168	196
16	206	67	199	118	202	169	383
17	280	68	187	119	223	170	361
18	363	69	250	120	317	171	350
19	575	70	162	121	244	172	184
20	304	71	211	122	108	173	201
21	404	72	249	123	190	174	352
22	1,591	73	172	124	231	175	305
23	705	74	625	125	409	176	168
24	344	75	191	126	431	177	226
25	649	76	241	127	247	178	364
26	577	77	219	128	169	179	353
27	530	78	239	129	392	180	295
28	488	79	295	130	267	181	137
29	461	80	301	131	731	182	488
30	615	81	143	132	1,180	183	497
31	559	82	398	133	1,149	184	277
32	505	83	324	134	1,410	185	233
33	575	84	293	135	241	186	457
34	553	85	190	136	209	187	1,488
35	495	86	139	137	298	188	332
36	436	87	319	138	197	189	93
37	447	88	517	139	119	190	174
38	762	89	279	140	293	191	108
39	516	90	255	141	398	192	375
40	522	91	173	142	405	193	246
41	221	92	275	143	345	194	331
42	607	93	231	144	549	195	376
43	475	94	503	145	299	196	414
44	769	95	356	146	727	197	395
45	401	96	409	147	462	198	242
46	595	97	462	148	539	199	443
47	506	98	402	149	397	200	259
48	409	99	341	150	849	201	392
49	516	100	409	151	748	202	310
50	402	101	233	152	621	203	684
51	181	102	218	153	783		

Faces of EE

The EE industry creates jobs, lowers bills, and strengthens the economy. Woven through communities via manufacturing, construction, professional services, and more, EE jobs are the backbone of the energy sector. This sample of people highlights just a few of the wide variety of jobs in the energy efficiency industry and the potential for growth when workforce development and training are prioritized.





Note: Some individuals pictured may have changed jobs since they joined Faces of EE.

This report was funded by the Building Performance Foundation and informed by the industry expertise of the Building Performance Association. Research was conducted by BW Research Partnership.

The Building Performance Foundation (BPF) is a 501(c)(3) charitable organization that works with policymakers, industry stakeholders, and professionals across the trades to educate and advance understanding of building performance, support workforce development, and expand access to career opportunities. Visit www.foundation.building-performance.org.

The Building Performance Association (BPA) is a 501(c)(6) industry trade association that serves and represents the professionals and businesses working to make America's homes more comfortable, healthy, and energy efficient, supporting them through membership, advocacy, education, and engagement. Visit www.building-performance.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 August 2026 U.S. Energy and Employment Report, 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.