

Pennsylvania

Energy Efficiency Jobs in America

72,913
Total Jobs

What are EE jobs?

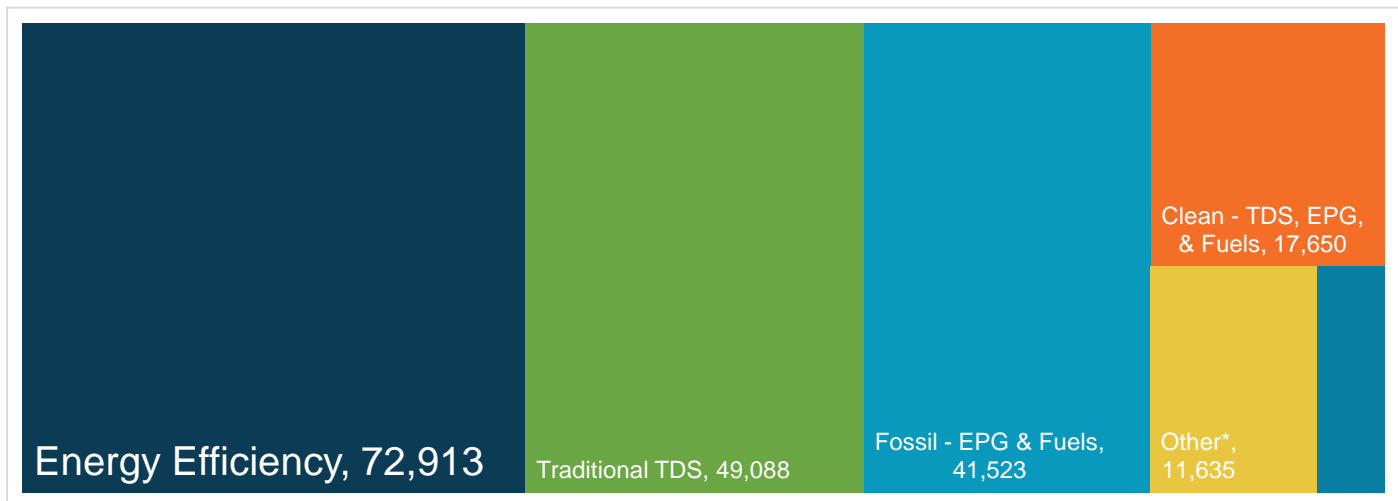
Jobs that deliver goods and services that lower energy use by improving energy efficiency with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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.

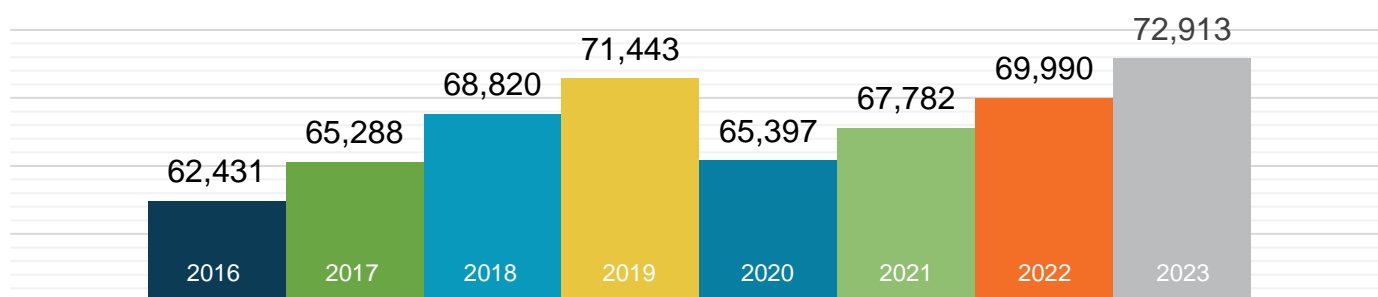
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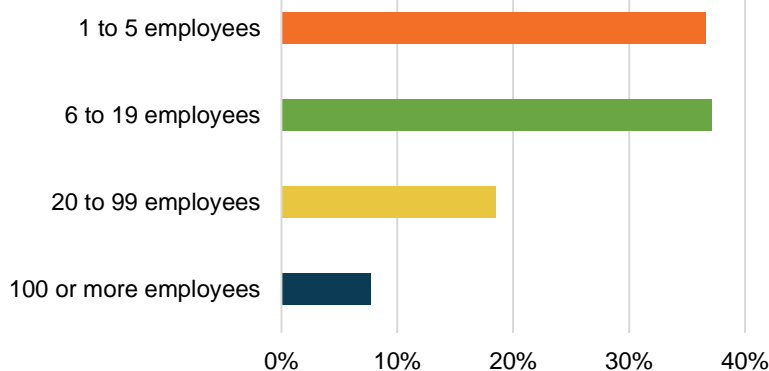
E4 THE FUTURE

What does EE look like in Pennsylvania?

EE Workers Employed in PA



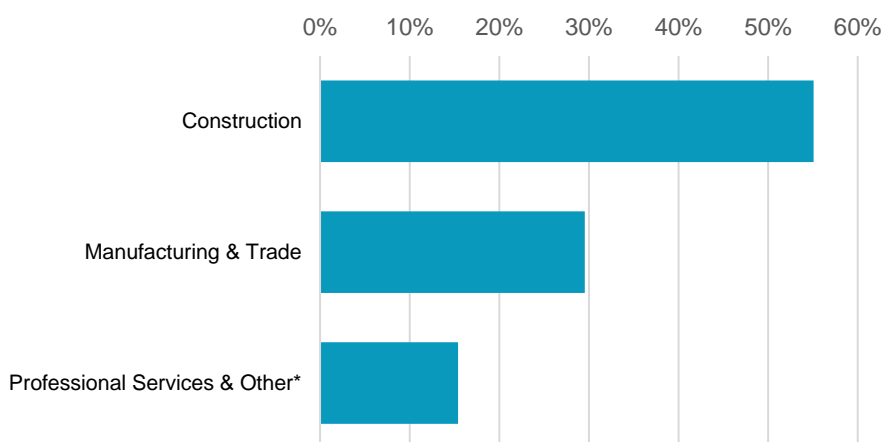
92.3% of PA EE Businesses Have Fewer Than 100 Employees



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

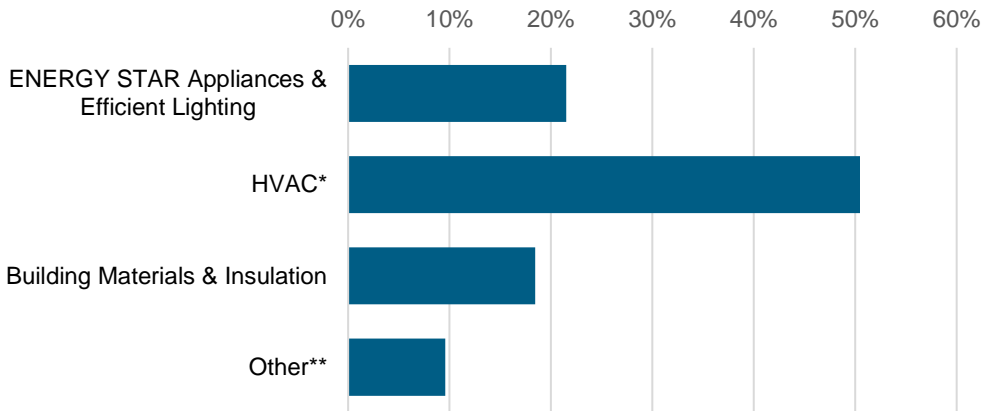


What type of work do energy efficiency firms do?



*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

10%
 of Pennsylvania
 EE workers are
Veterans

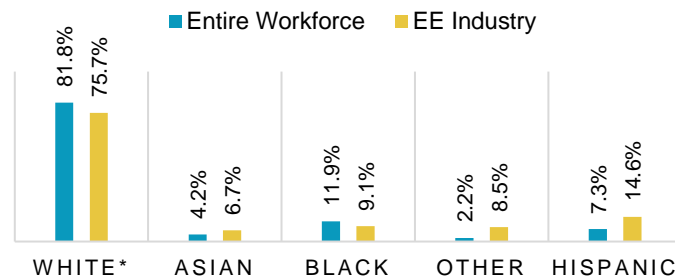


How is EE doing on diversity in Pennsylvania?

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.

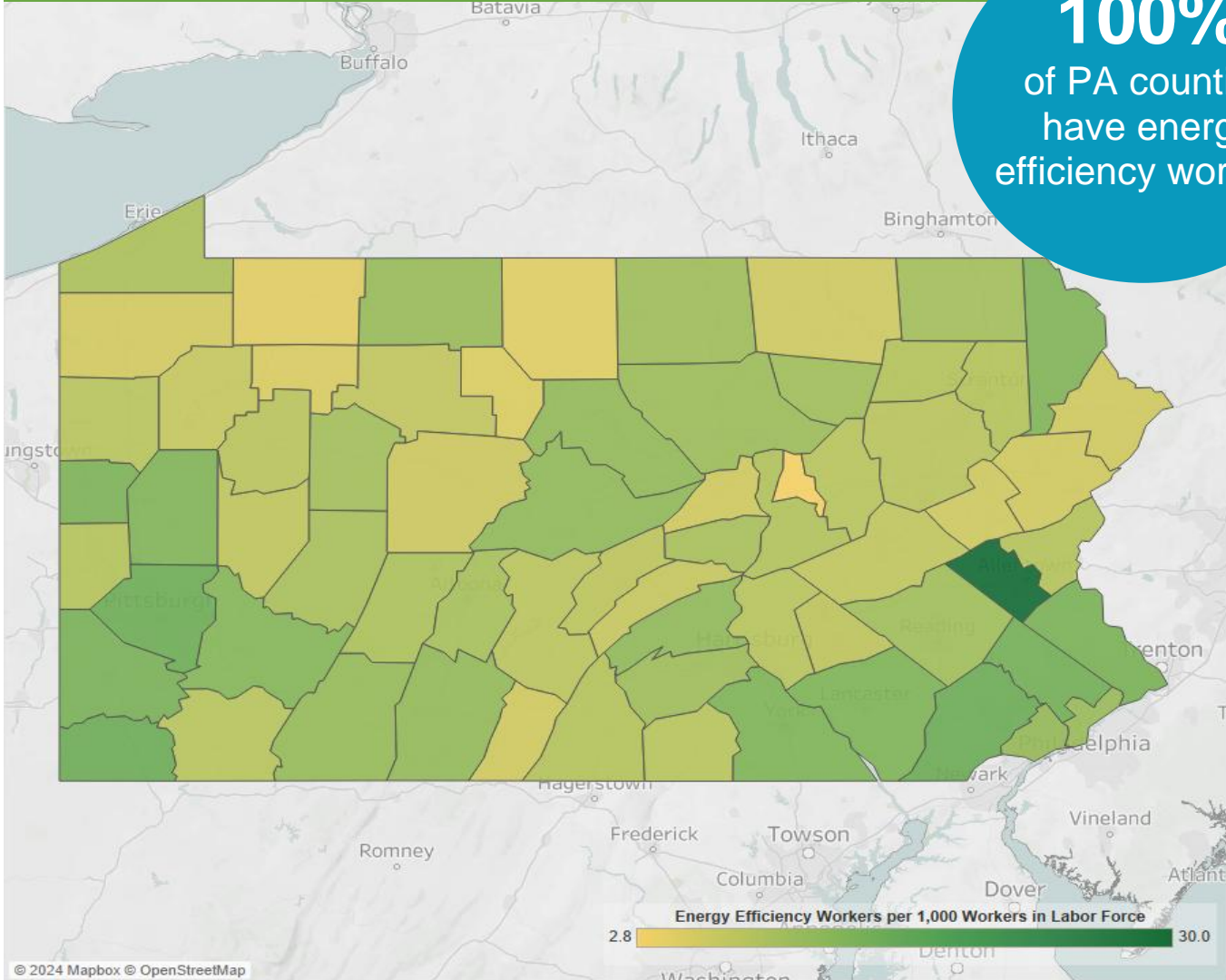
Gender in the Pennsylvania EE Workforce



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

District	Jobs	District	Jobs
1	5,901	10	4,205
2	3,728	11	4,751
3	3,553	12	4,934
4	5,637	13	2,940
5	3,720	14	3,347
6	4,570	15	3,141
7	8,600	16	3,470
8	2,609	17	5,290
9	2,515		

Metropolitan Areas

Area	Jobs	Area	Jobs
Allentown-Bethlehem-Easton	8,253	Pittsburgh	14,841
Altoona	549	Reading	1,748
Erie	1,104	Scranton--Wilkes-Barre--Hazleton	2,086
Harrisburg-Carlisle	3,081	State College	789
Johnstown	440	Williamsport	523
Lancaster	3,359	York-Hanover	2,473
Lebanon	405	Youngstown-Warren-Boardman	355
New York-Newark-Jersey City	71	Rural	7,804
Philadelphia-Camden-Wilmington	25,032		

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

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





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.



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.



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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

