Kentucky

Energy Efficiency Jobs in America

24,405
Total Jobs

What are EE jobs?

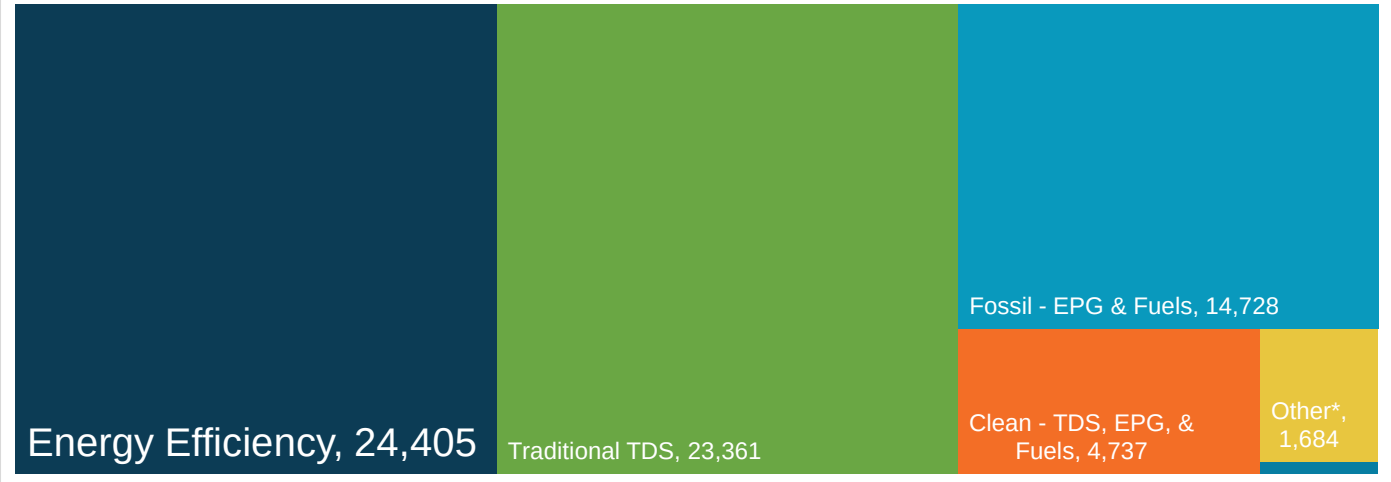
Jobs that deliver goods and services that lower energy use by improving energy efficiency with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 Kentucky?

Energy efficiency is the largest energy sector in Kentucky.

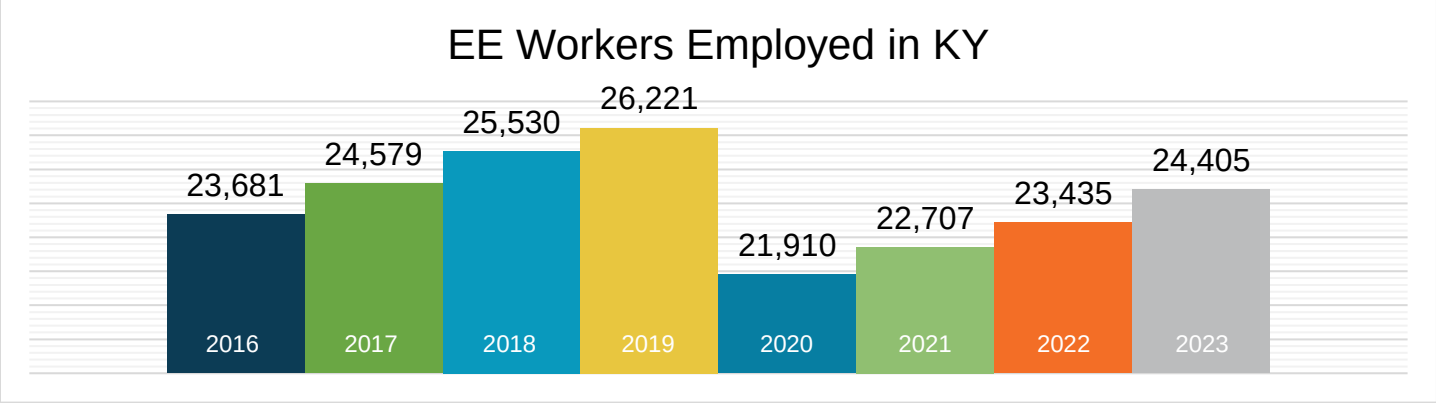


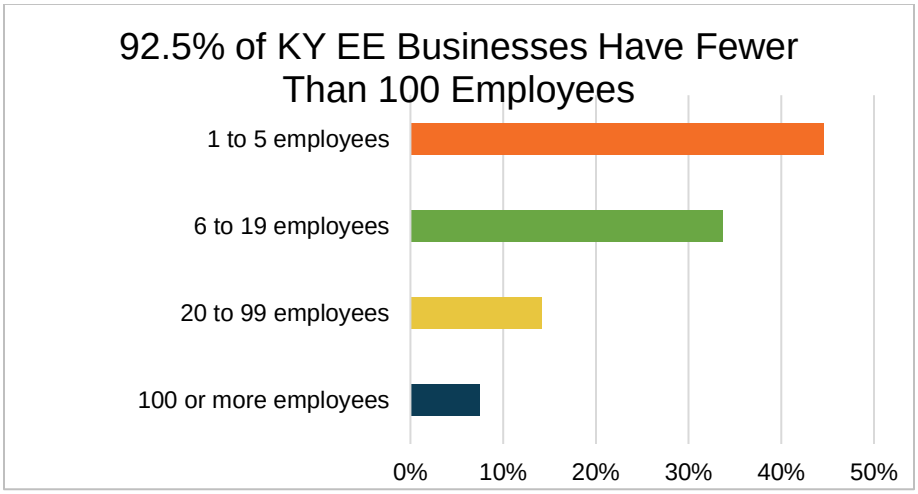
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
Nuclear (EPG & Fuels) = 158
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by:

Updated April 2025

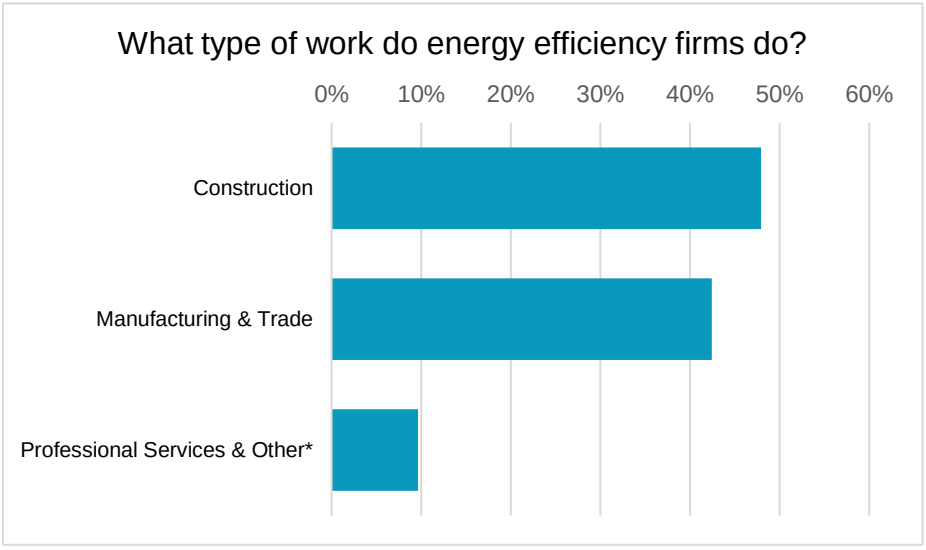
What does EE look like in Kentucky?



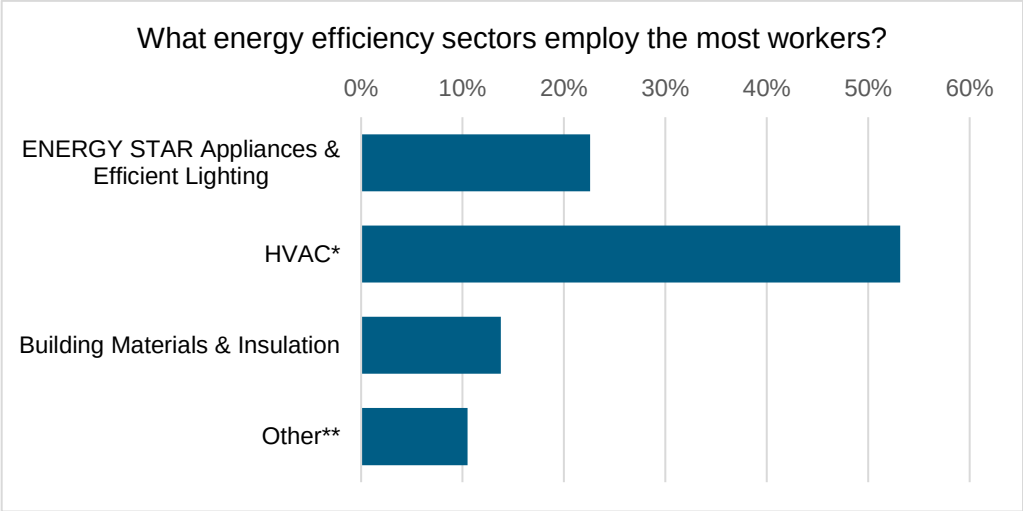


5,706
EE businesses in Kentucky

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



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



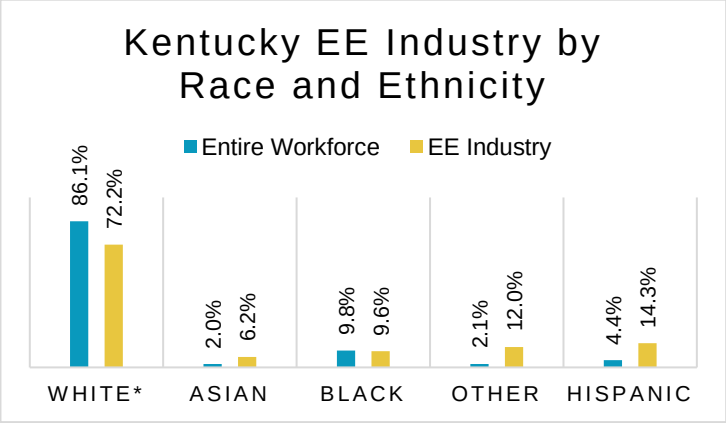
*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

9% of Kentucky EE workers are **Veterans**

How is EE doing on diversity in Kentucky?

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 Kentucky 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 Kentucky businesses.



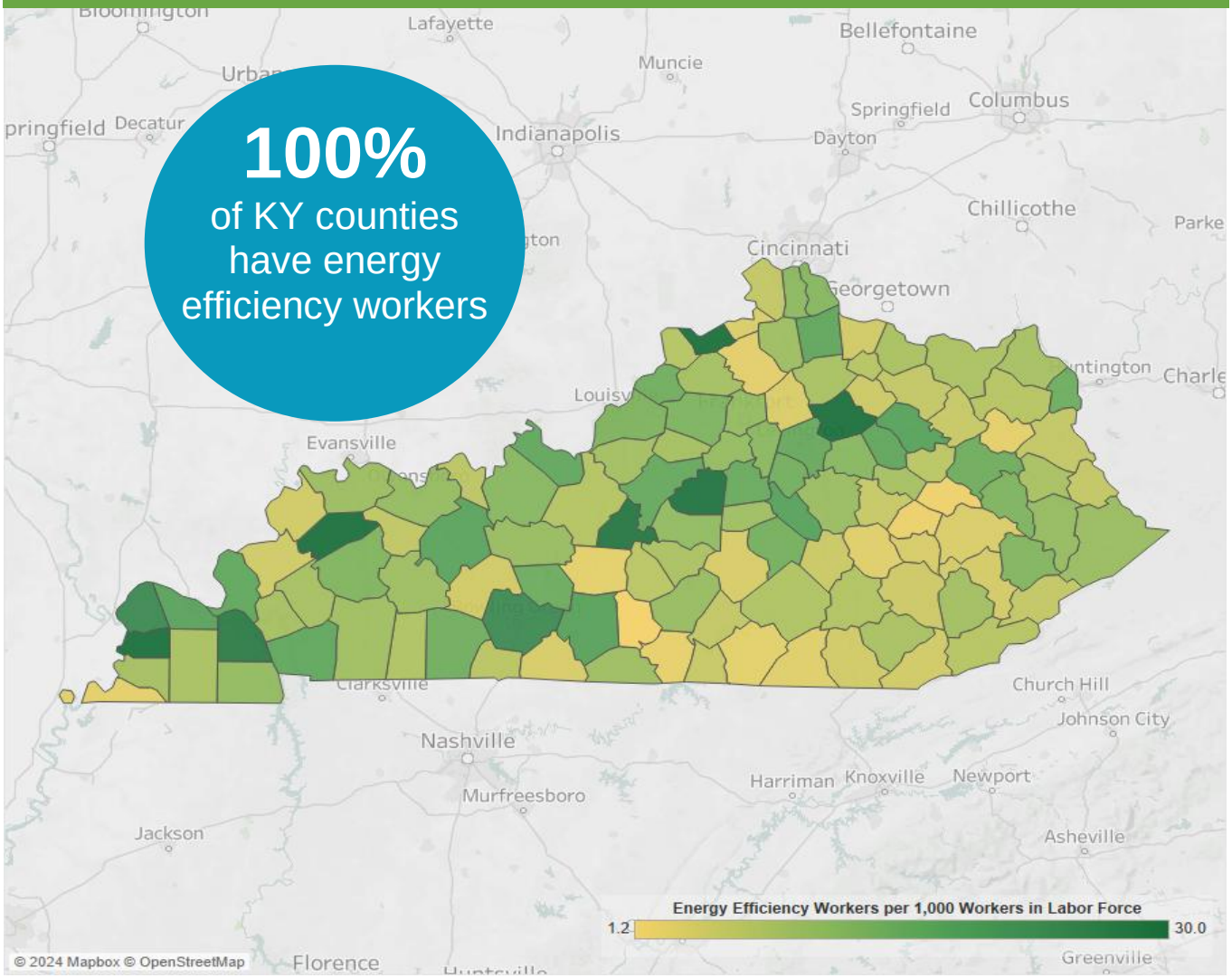
*Includes non-Hispanic and Hispanic whites.

Gender in the Kentucky 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



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**
1	3,928
2	4,320
3	4,884
4	3,750
5	1,943
6	5,579

Metropolitan Areas	
Area	**Jobs**
Bowling Green	1,709
Cincinnati	1,976
Clarksville	343
Elizabethtown-Fort Knox	521
Evansville	193
Huntington-Ashland	450
Lexington-Fayette	4,063
Louisville/Jefferson County	7,179
Owensboro	534
Rural	7,439

State Senate							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	702	11	925	21	792	31	444
2	859	12	1,259	22	455	32	130
3	656	13	1,096	23	290	33	1,696
4	732	14	1,556	24	460	34	347
5	1,185	15	637	25	186	35	69
6	500	16	429	26	675	36	416
7	717	17	633	27	409	37	110
8	334	18	620	28	211	38	220
9	594	19	2,036	29	553		
10	616	20	618	30	239		

State House of Representatives							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	805	28	306	55	255	82	289
2	495	29	764	56	331	83	84
3	<10	30	768	57	<10	84	253
4	389	31	462	58	40	85	191
5	82	32	811	59	26	86	49
6	117	33	424	60	672	87	69
7	897	34	285	61	406	88	<10
8	30	35	141	62	14	89	15
9	233	36	19	63	748	90	61
10	821	37	26	64	153	91	119
11	<10	38	134	65	13	92	348
12	65	39	768	66	<10	93	96
13	<10	40	121	67	224	94	65
14	112	41	1,466	68	27	95	203
15	121	42	<10	69	<10	96	235
16	813	43	<10	70	283	97	139
17	356	44	<10	71	507	98	384
18	35	45	293	72	580	99	63
19	54	46	<10	73	210	100	<10
20	<10	47	662	74	87		
21	203	48	139	75	760		
22	62	49	59	76	299		
23	260	50	217	77	<10		
24	301	51	191	78	<10		
25	<10	52	598	79	<10		
26	513	53	271	80	34		
27	66	54	224	81	<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.

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, 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