

Alabama

Energy Efficiency Jobs in America

31,549

Total Jobs

What are EE jobs?

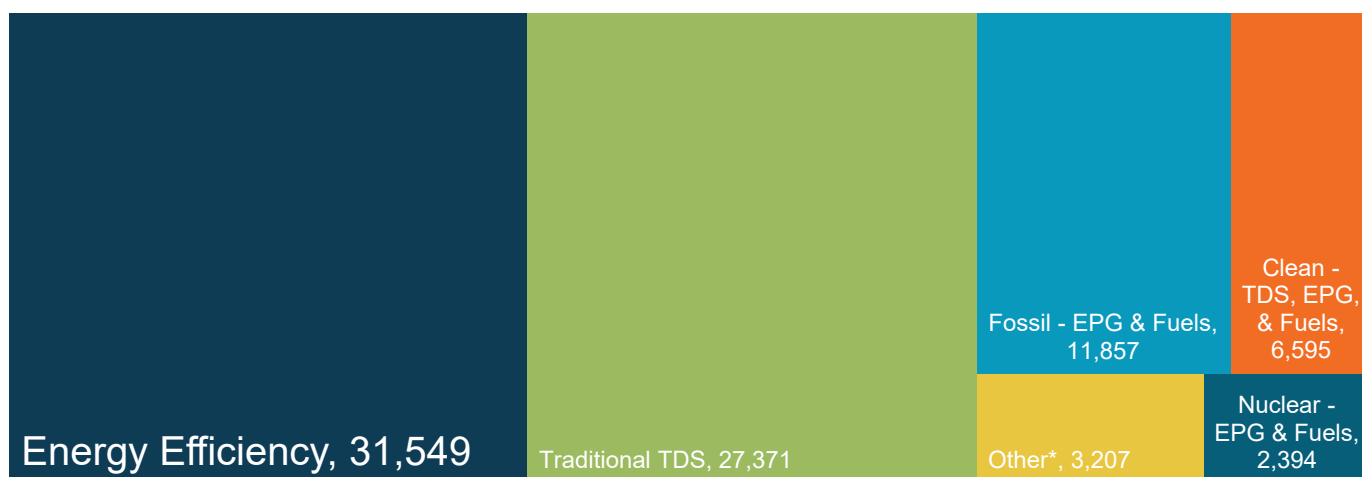
Jobs that reduce energy use by improving efficiency in appliances, buildings, data systems, financing, new technologies, and more.

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 Alabama?

Energy efficiency is the largest energy sector in Alabama.



TDS = Transmission, Distribution, & Storage

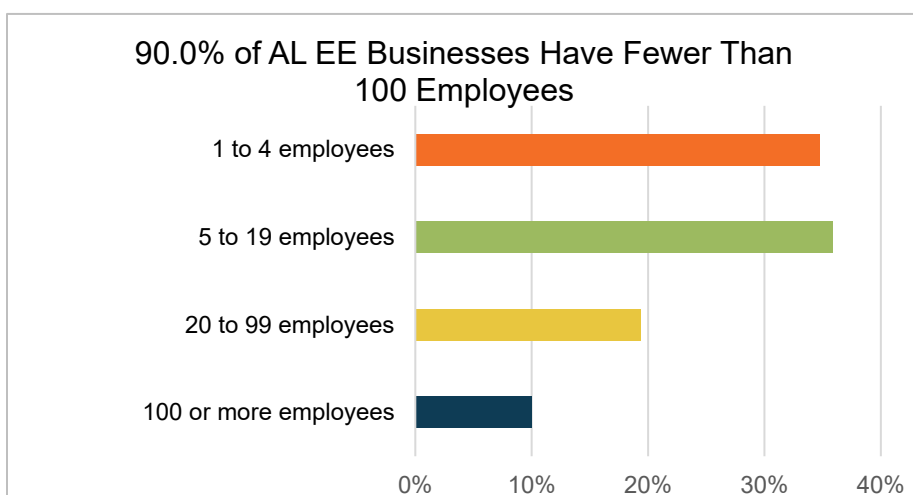
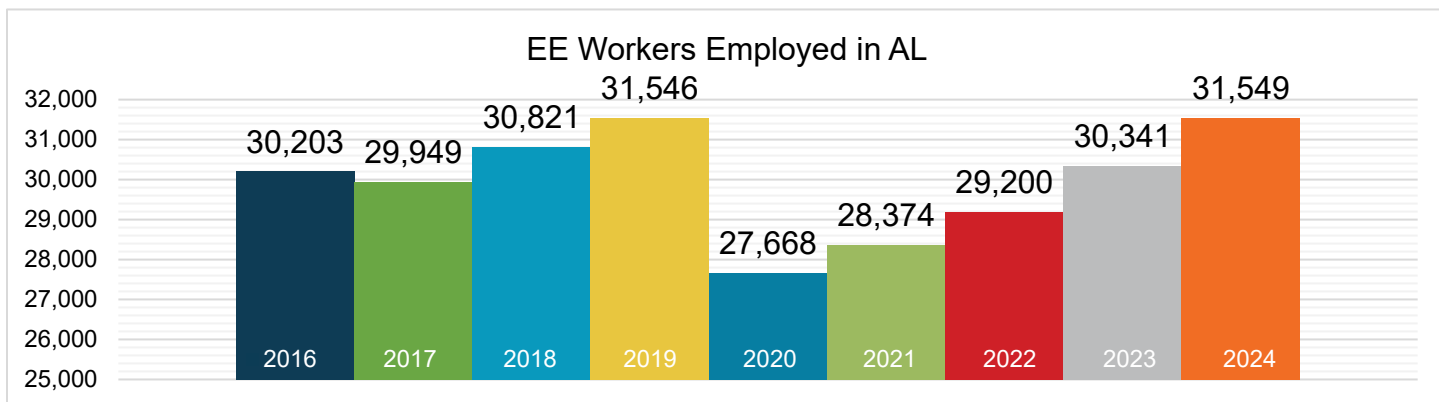
EPG = Electric Power Generation

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

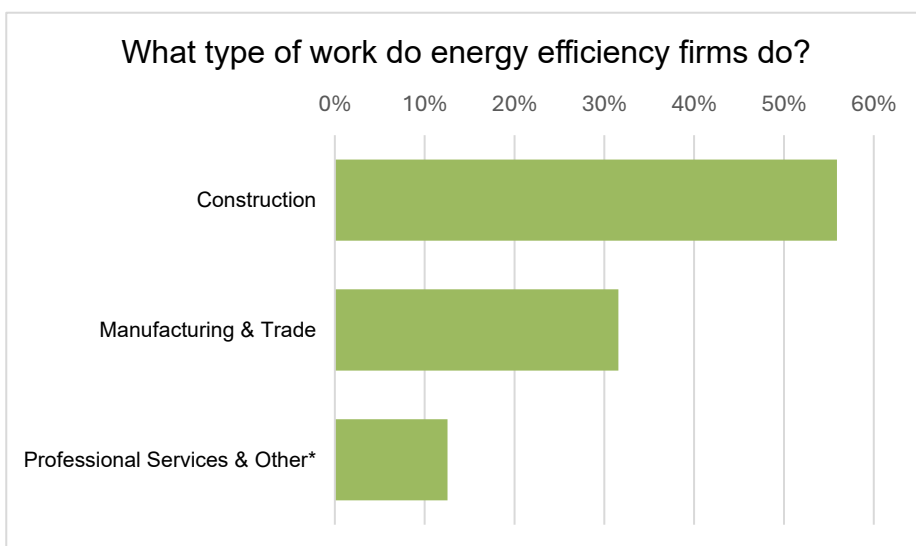
Presented by:



What does EE look like in Alabama?



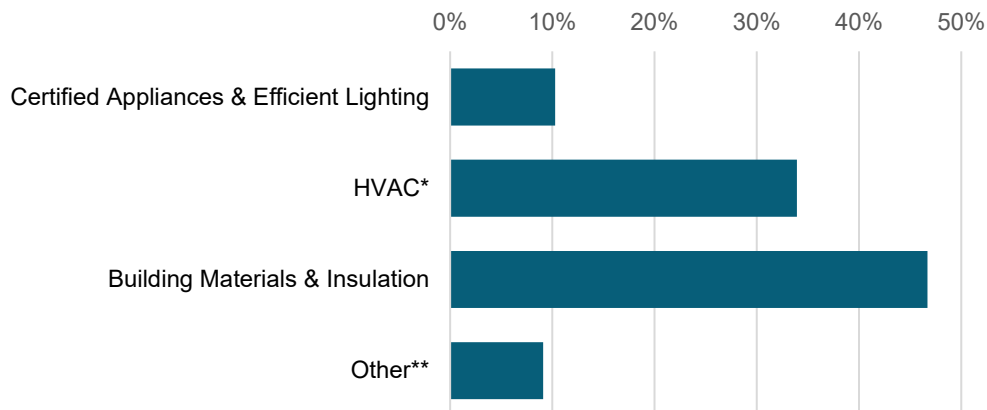
EE construction workers comprise **16%** of Alabama's construction workforce



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



What energy efficiency sectors employ the most workers?



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

8%
of Alabama
EE workers are
veterans

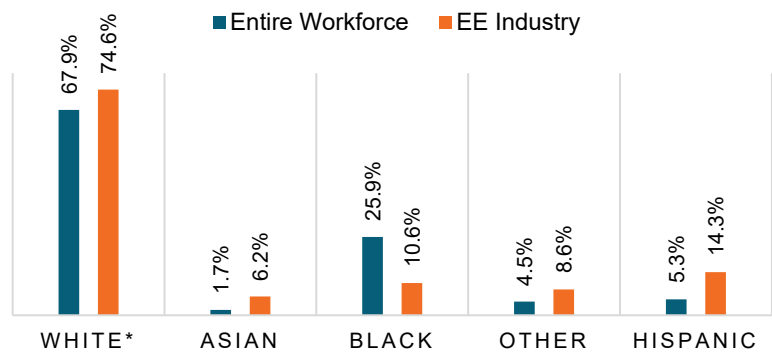


How representative is the EE workforce in Alabama?

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

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

Alabama EE Industry by Race and Ethnicity



*Includes non-Hispanic and Hispanic whites.

Gender in the Alabama EE Workforce

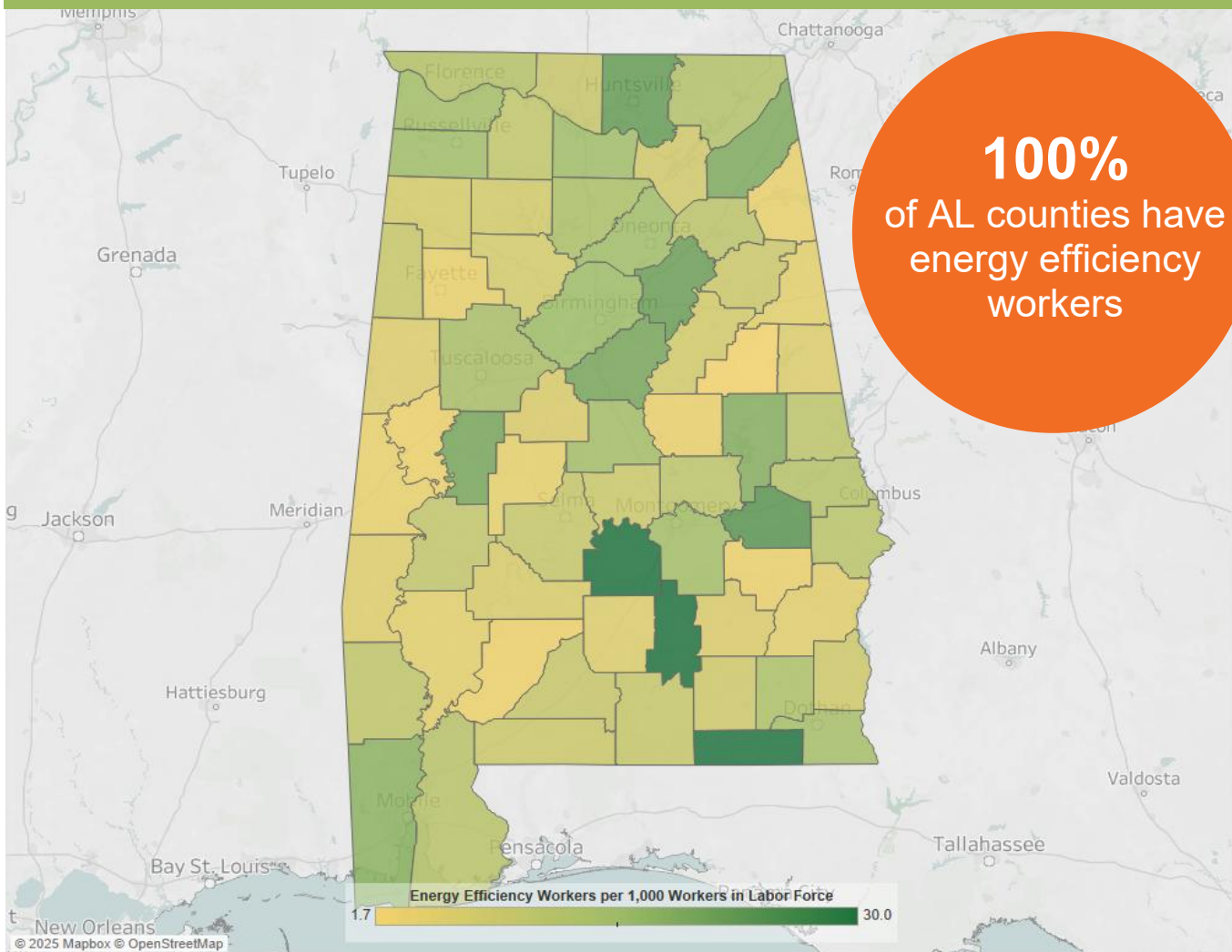


Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Nonbinary gender data is missing from this document due to this limitation.



Energy efficiency jobs are everywhere

EE Jobs by 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/348937>.

Congressional		Metropolitan Areas			
District	Jobs	Area	Jobs	Area	Jobs
1	3,903	Anniston-Oxford	375	Gadsden	373
2	4,893	Auburn-Opelika	818	Huntsville	5,492
3	2,796	Birmingham-Hoover	8,560	Mobile	3,174
4	3,145	Columbus	162	Montgomery	2,496
5	6,901	Decatur	914	Tuscaloosa	1,487
6	4,624	Dothan	954	Rural	5,984
7	5,287	Florence-Muscle Shoals	760		



State Senate										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	565		11	711		21	999		31	418
2	1,785		12	485		22	627		32	609
3	1,084		13	455		23	401		33	963
4	585		14	1,068		24	490		34	1,163
5	431		15	1,198		25	943		35	1,140
6	731		16	914		26	1,435			
7	2,029		17	1,030		27	666			
8	1,158		18	1,331		28	611			
9	1,184		19	1,239		29	926			
10	528	20	1,205	30	440					

State House of Representatives										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	284		28	276		55	540		82	269
2	147		29	74		56	226		83	295
3	334		30	198		57	499		84	96
4	64		31	172		58	625		85	260
5	222		32	174		59	195		86	417
6	687		33	121		60	446		87	312
7	97		34	122		61	298		88	90
8	524		35	83		62	219		89	146
9	357		36	286		63	393		90	226
10	144		37	52		64	212		91	139
11	119		38	137		65	108		92	127
12	307		39	141		66	157		93	213
13	104		40	88		67	117		94	169
14	175		41	352		68	94		95	279
15	576		42	149		69	372		96	242
16	73		43	432		70	440		97	193
17	130		44	449		71	139		98	422
18	208		45	409		72	100		99	443
19	422		46	782		73	470		100	406
20	794		47	336		74	376		101	333
21	1,080		48	313		75	168		102	304
22	665		49	188		76	404		103	543
23	198		50	242		77	371		104	265
24	356		51	372		78	616		105	469
25	1,040		52	232		79	262			
26	189		53	547		80	195			
27	151	54	409	81	265					





The Building Performance Association (BPA) is a nonprofit industry association that serves as the hub for businesses, nonprofits, and government agencies working to make America's homes more energy-efficient, comfortable, healthy, and safe. 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 2025 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.

