Alabama

Energy Efficiency Jobs in America

30,341
Total Jobs

What are EE jobs?

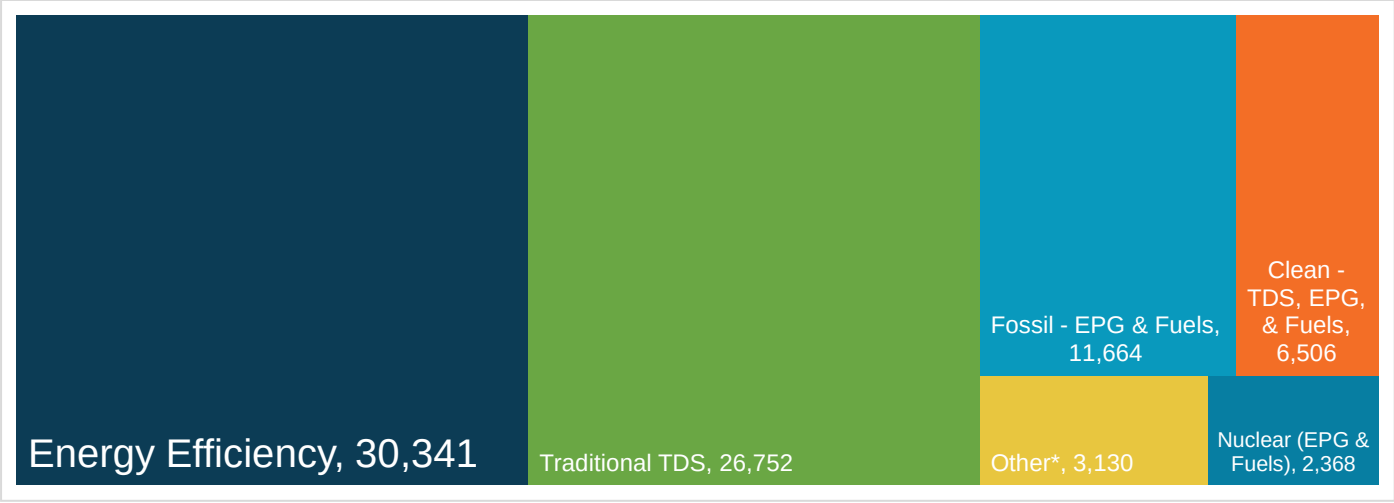
Jobs that deliver goods and services that lower energy use by improving energy efficiency with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 Alabama?

Energy efficiency is the largest energy sector in Alabama.

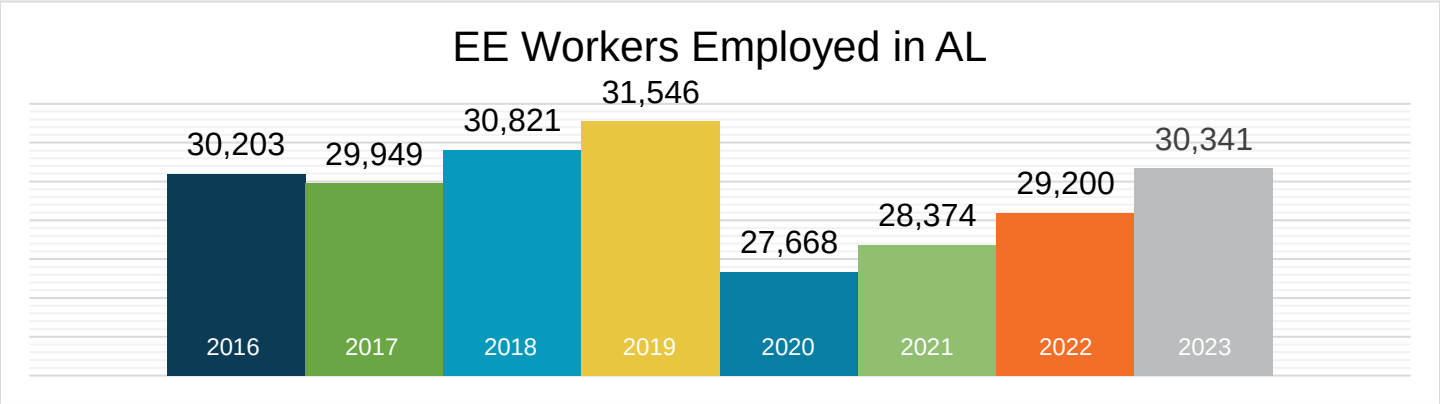


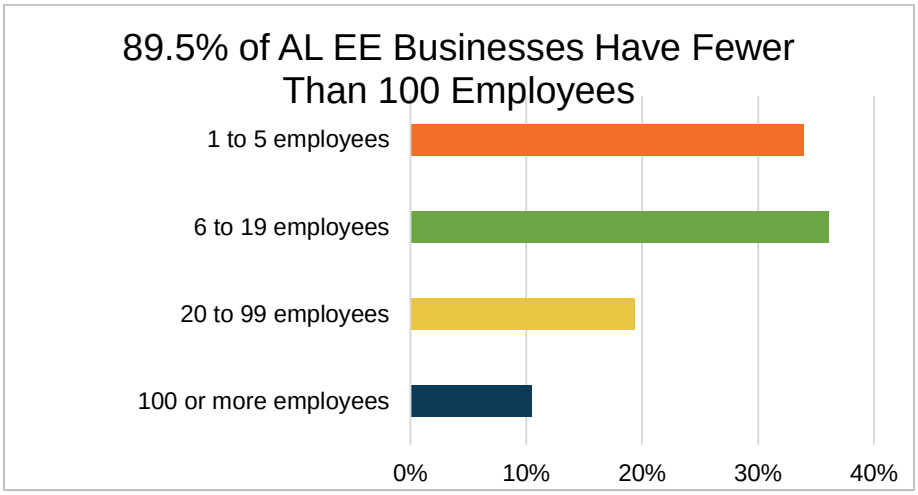
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by:

Updated April 2025

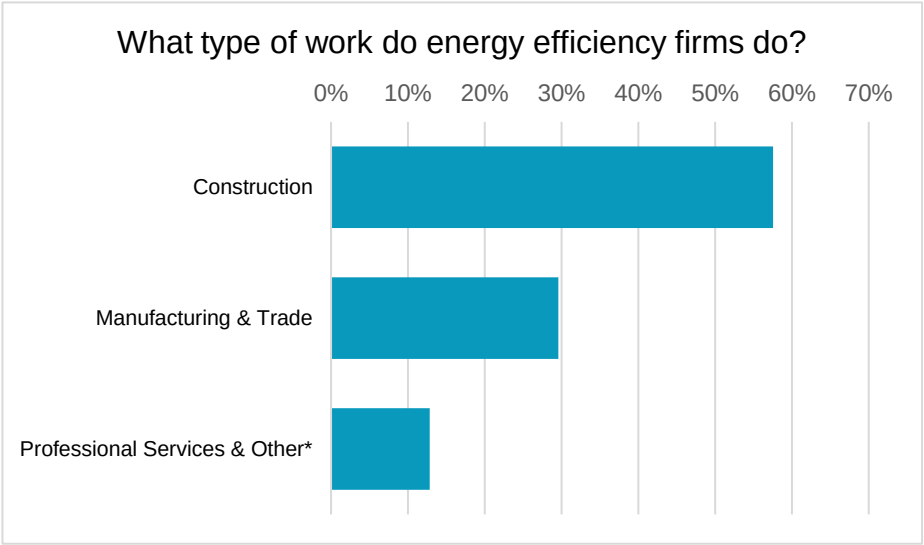
What does EE look like in Alabama?



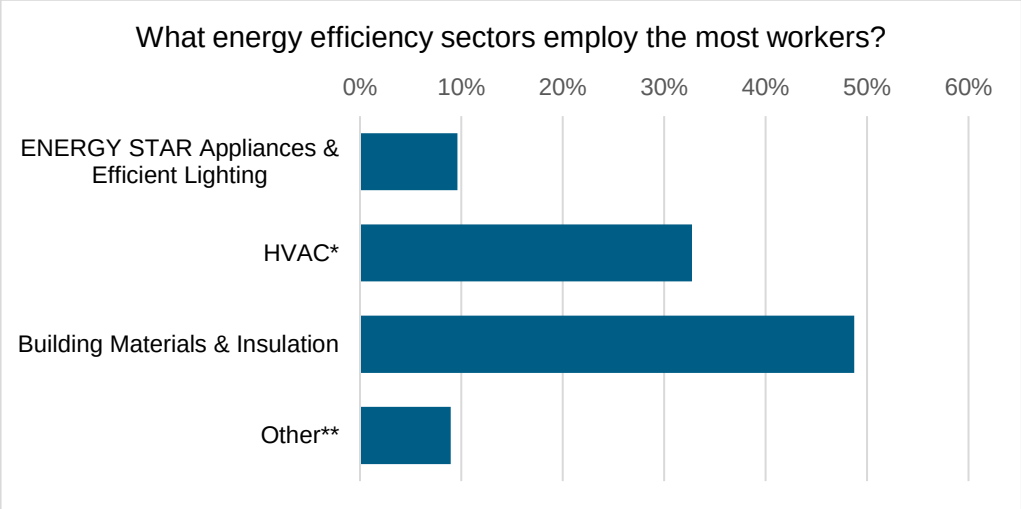


4,864
EE businesses in Alabama

EE construction workers comprise **17%** of Alabama's construction workforce



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



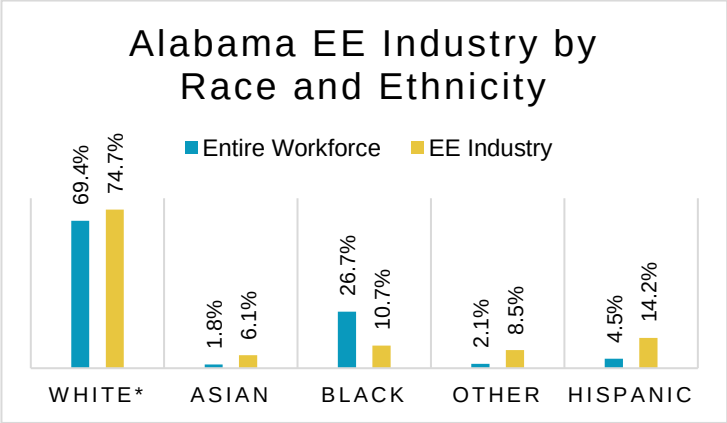
8% of Alabama EE workers are **Veterans**

*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 Alabama?

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 Alabama 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 Alabama businesses.

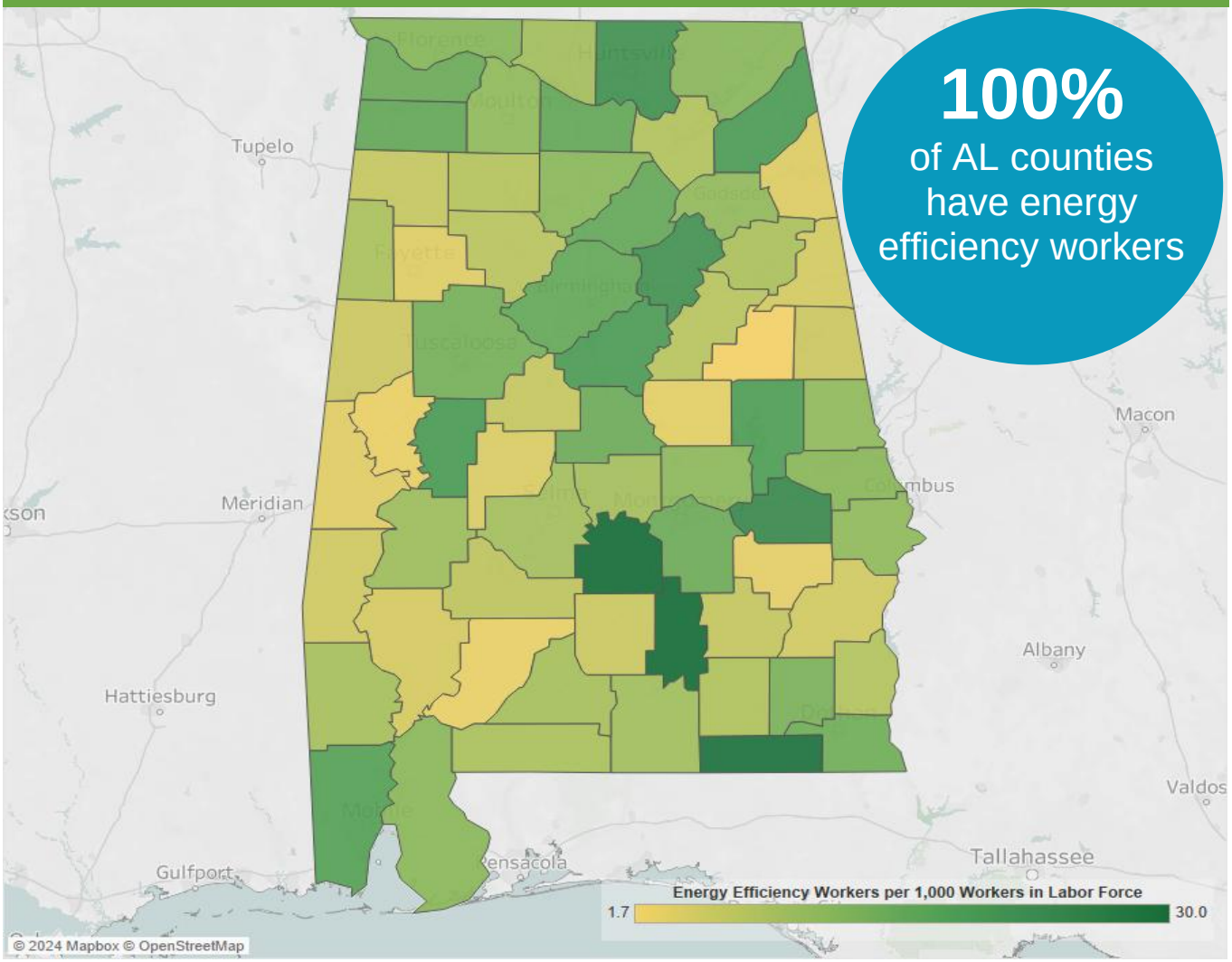


*Includes non-Hispanic and Hispanic whites.

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		Metropolitan Areas			
District	**Jobs**	**Area**	**Jobs**	**Area**	**Jobs**
1	4,380	Anniston-oxford	362	Gadsden	360
2	4,250	Auburn-Opelika	790	Huntsville	5,294
3	2,444	Birmingham-Hoover	8,255	Mobile	3,026
4	3,180	Columbus	157	Montgomery	2,410
5	8,045	Decatur	883	Tuscaloosa	1,432
6	4,545	Dothan	922	Rural	5,715
7	3,497	Florence-Muscle Shoals	734		

State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	1,606	11	1,603	21	916	31	103
2	736	12	546	22	1,349	32	800
3	1,106	13	1,064	23	454	33	2,203
4	893	14	956	24	173	34	704
5	726	15	2,849	25	2,262	35	351
6	397	16	173	26	65		
7	1,117	17	539	27	275		
8	530	18	2,564	28	1,147		
9	452	19	108	29	556		
10	664	20	<10	30	348		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	561	28	515	55	115	82	93
2	294	29	99	56	184	83	10
3	436	30	246	57	13	84	207
4	795	31	429	58	<10	85	840
5	38	32	694	59	<10	86	148
6	1,162	33	82	60	<10	87	168
7	75	34	69	61	751	88	<10
8	<10	35	21	62	290	89	288
9	387	36	77	63	<10	90	134
10	296	37	234	64	1,037	91	20
11	550	38	498	65	320	92	150
12	34	39	75	66	230	93	<10
13	309	40	<10	67	241	94	237
14	66	41	819	68	72	95	233
15	943	42	347	69	349	96	317
16	437	43	1,324	70	<10	97	1,261
17	71	44	655	71	68	98	113
18	68	45	473	72	29	99	423
19	230	46	763	73	<10	100	327
20	1,042	47	<10	74	1,071	101	341
21	36	48	<10	75	13	102	<10
22	176	49	83	76	655	103	391
23	123	50	68	77	68	104	46
24	243	51	111	78	<10	105	36
25	<10	52	697	79	355		
26	92	53	<10	80	33		
27	20	54	1,647	81	68		

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