Alabama

Energy Efficiency Jobs in America

29,200
Total Jobs

What are EE Jobs?

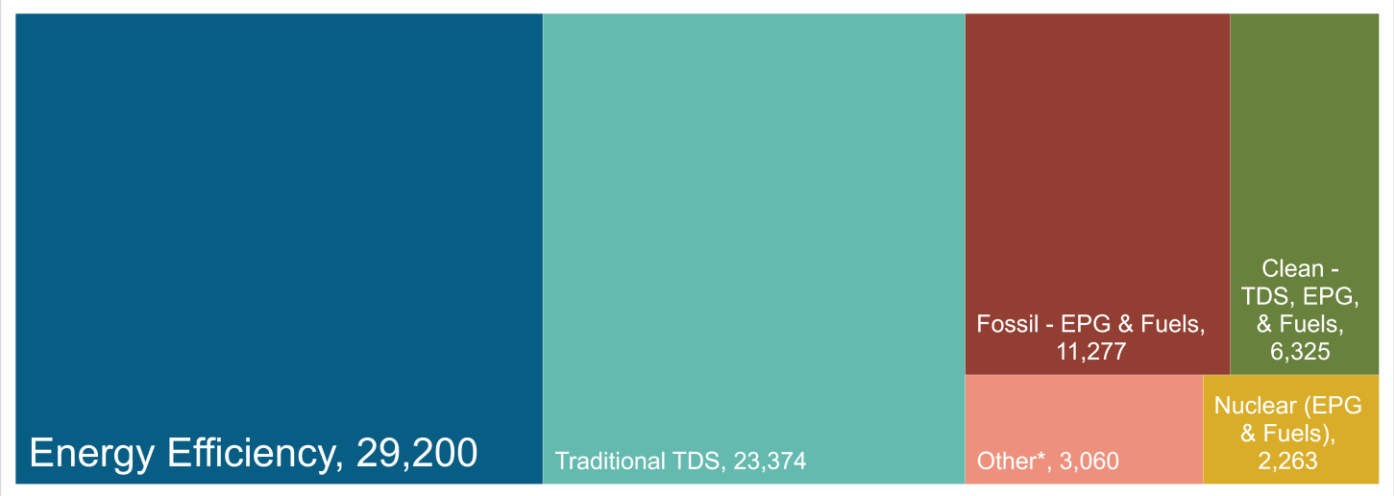
Jobs that deliver goods and services that lower energy use by improving energy efficiency – with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 & industrial buildings.
- **Design and construct** high performance buildings such as those earning LEED certification.
- **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.

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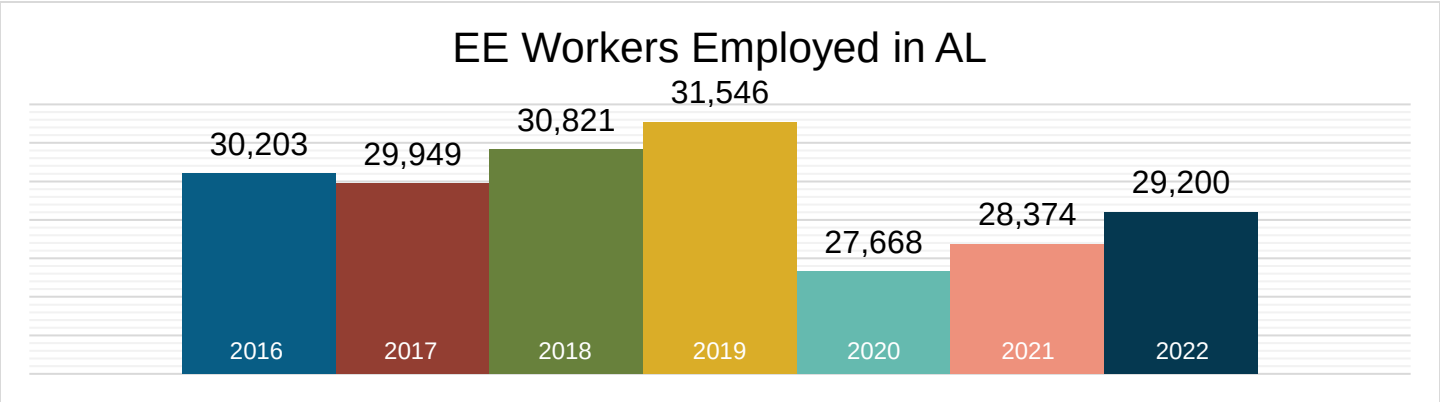
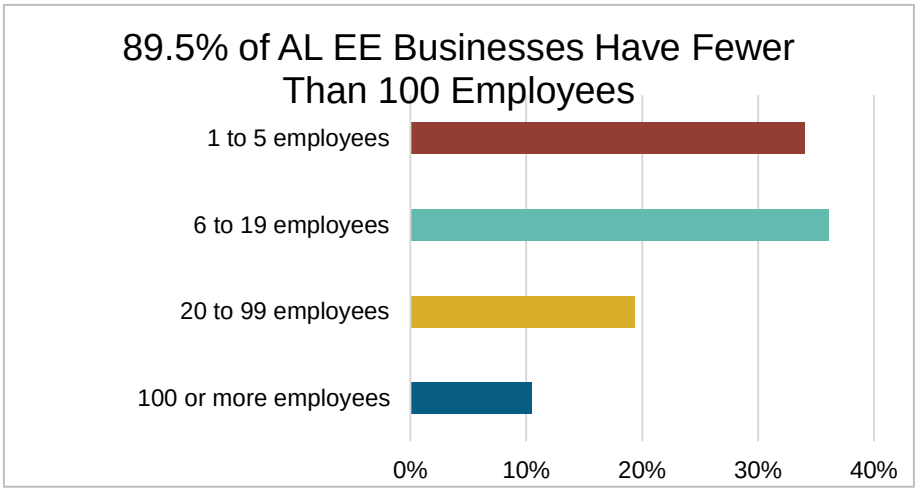
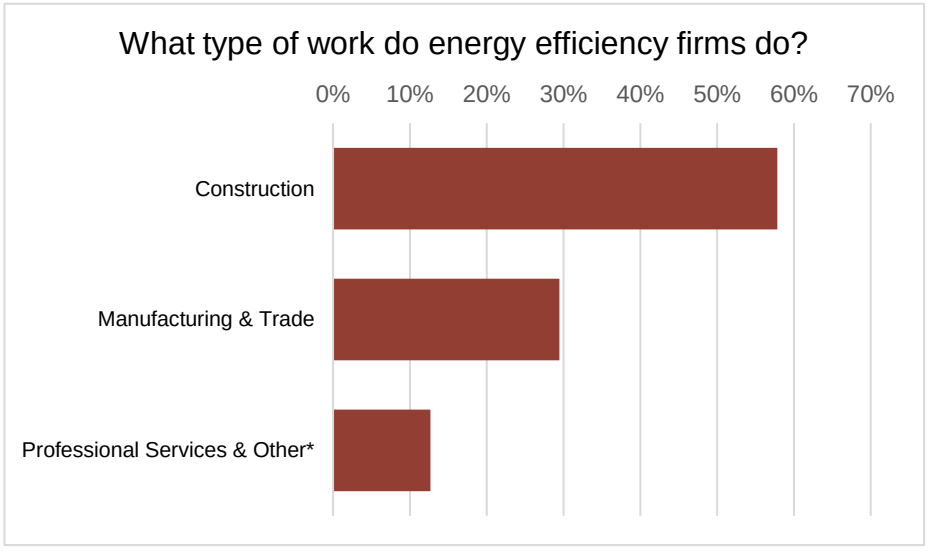
What does EE look like in Alabama?



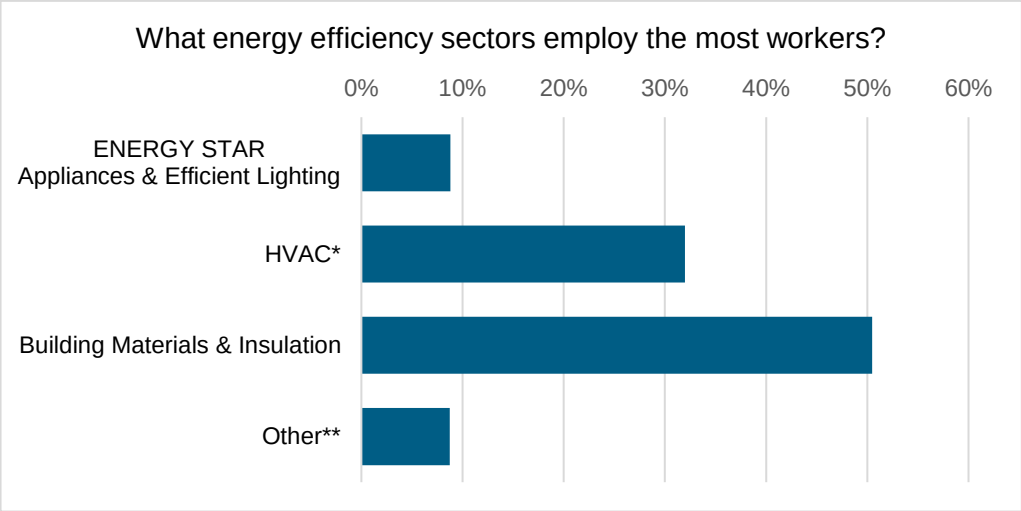


4,758
EE businesses in Alabama

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.



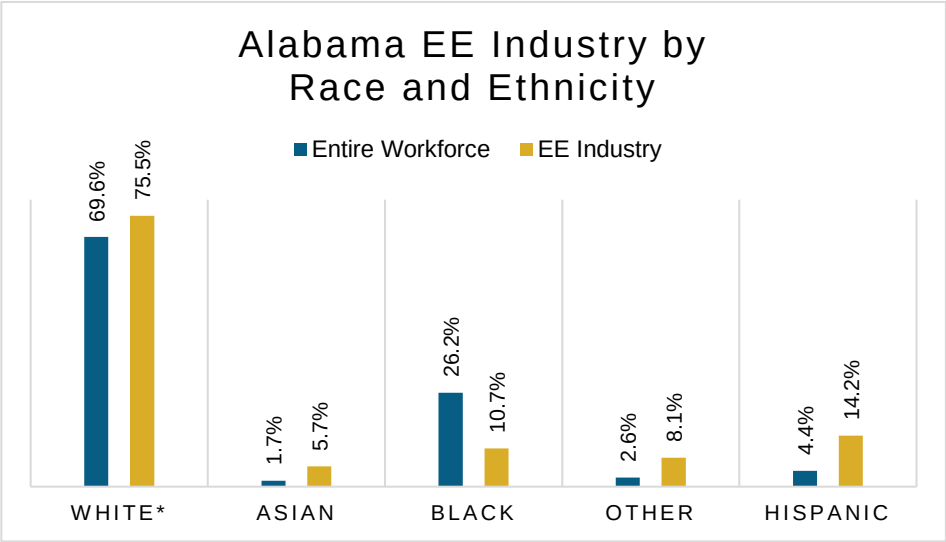
8% of Alabama EE workers are **Veterans**

*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 EE businesses.

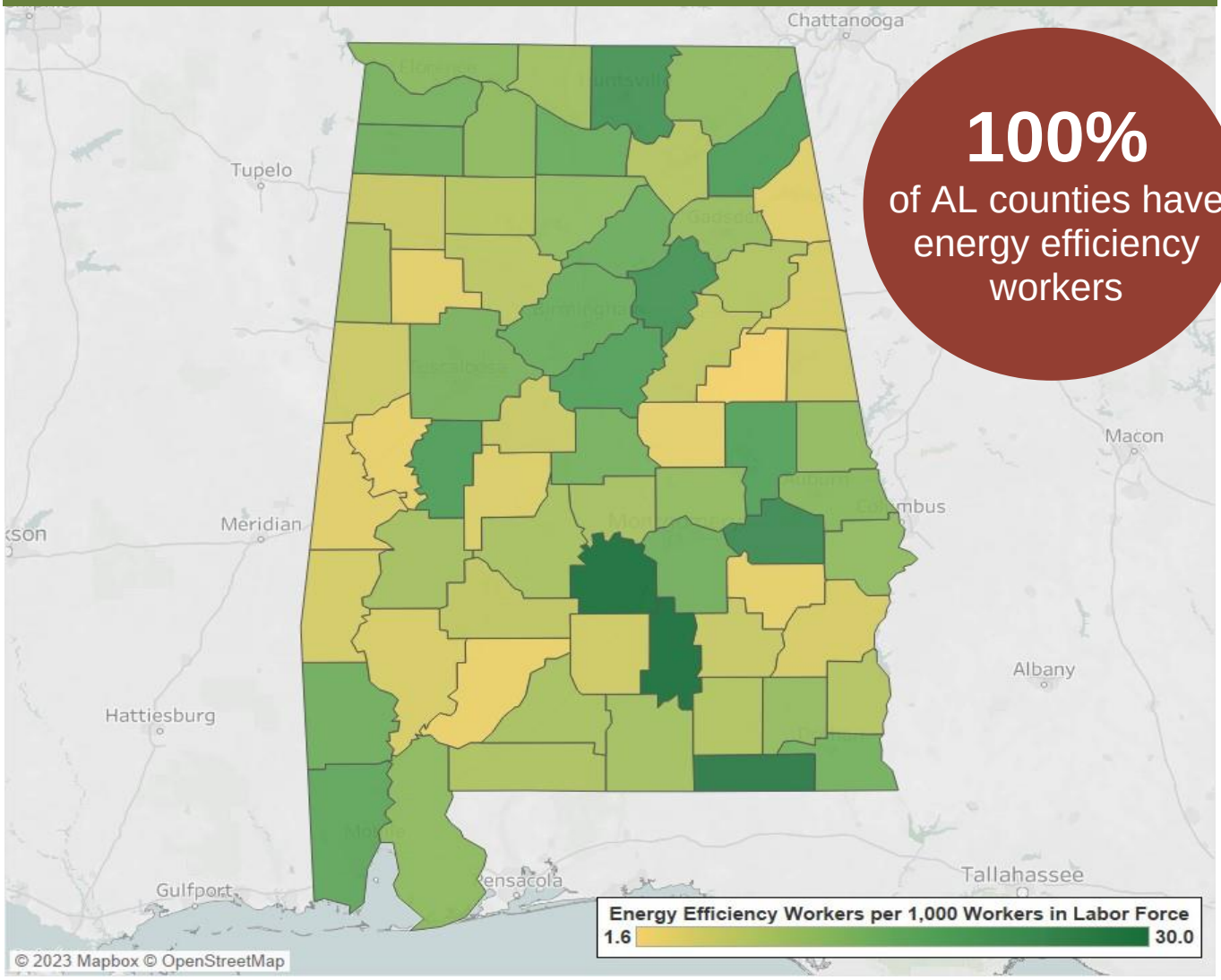


*Includes non-Hispanic and Hispanic whites.

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



100%
of AL 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 the 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/policy/2023-useer-county-level-data-faq.

Congressional		Metropolitan Areas			
District	Jobs	Area	Jobs	Area	Jobs
1	5,112	Anniston-Oxford	349	Gadsden	348
2	4,443	Auburn-Opelika	761	Huntsville	5,093
3	3,344	Birmingham-Hoover	7,956	Mobile	2,918
4	3,404	Columbus	152	Montgomery	2,324
5	4,307	Decatur	852	Tuscaloosa	1,378
6	6,137	Dothan	890	Rural	5,470
7	2,453	Florence-Muscle Shoals	709		

State Senate

District	Jobs	District	Jobs	District	Jobs	Distric	Jobs
1	1,550	11	1,549	21	886	31	99
2	711	12	528	22	1,304	32	774
3	1,069	13	1,029	23	439	33	2,129
4	863	14	924	24	167	34	680
5	702	15	2,753	25	2,177	35	339
6	384	16	147	26	63		
7	1,066	17	521	27	266		
8	513	18	2,478	28	1,031		
9	437	19	104	29	538		
10	641	20	<10	30	336		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	541	28	499	55	111	82	91
2	283	29	96	56	178	83	10
3	422	30	238	57	12	84	200
4	770	31	415	58	<10	85	737
5	30	32	673	59	<10	86	144
6	1,126	33	79	60	<10	87	163
7	72	34	66	61	727	88	<10
8	<10	35	20	62	281	89	279
9	375	36	75	63	<10	90	130
10	287	37	227	64	1,004	91	19
11	533	38	483	65	310	92	146
12	33	39	73	66	223	93	10
13	299	40	<10	67	233	94	229
14	64	41	793	68	70	95	226
15	893	42	336	69	338	96	307
16	424	43	1,283	70	<10	97	1,222
17	69	44	635	71	66	98	109
18	66	45	459	72	28	99	410
19	223	46	739	73	<10	100	317
20	996	47	<10	74	1,026	101	330
21	35	48	<10	75	13	102	<10
22	170	49	80	76	625	103	379
23	119	50	66	77	66	104	44
24	236	51	108	78	<10	105	35
25	<10	52	675	79	344		
26	89	53	<10	80	32		
27	19	54	1,595	81	66		

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.

E2 is a national, nonpartisan group of business leaders, investors and others who advocate for smart policies that are good for the environment and good for the economy. Visit www.e2.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: Except for county data on page 4, all data are from the U.S. Energy and Employment Report, June 2023, 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 E4TheFuture analyses please email: policy@e4thefuture.org