Michigan
Energy Efficiency Jobs in America

75,085
Total Jobs

What are EE Jobs?

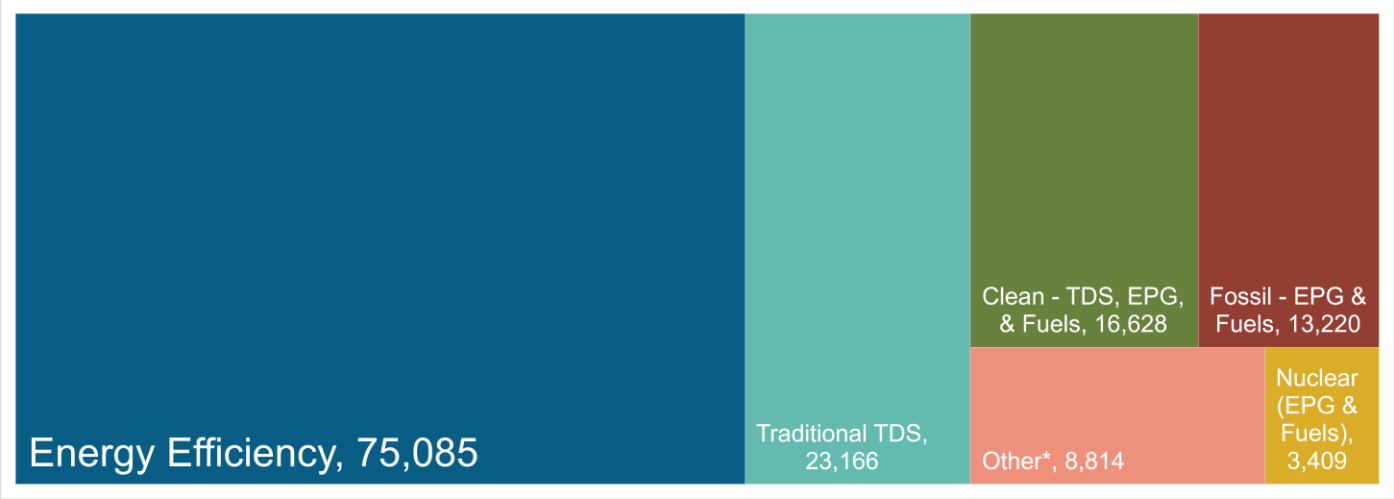
Jobs that deliver goods and services that lower energy use by improving energy efficiency – with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 Michigan?

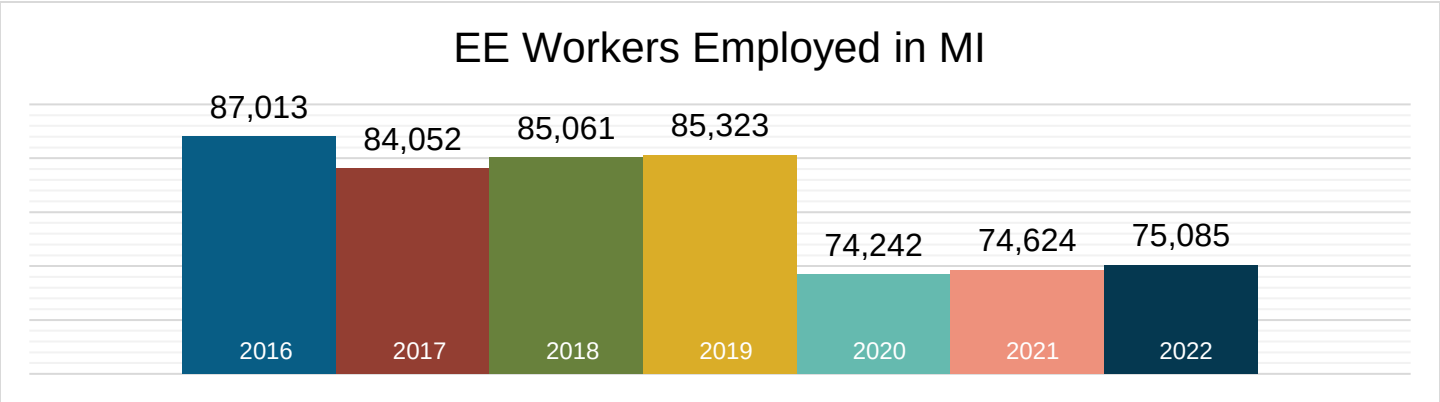
Energy Efficiency is the largest energy sector in Michigan.

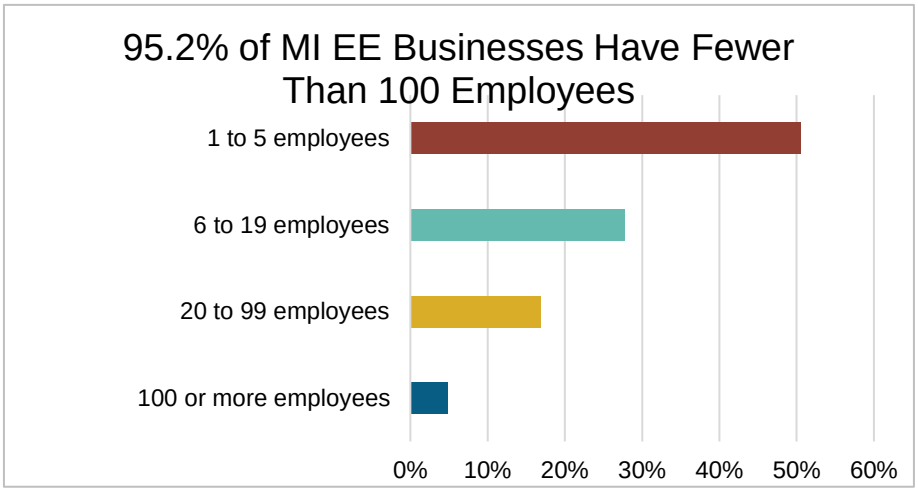


TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by: E2 E4 THE FUTURE

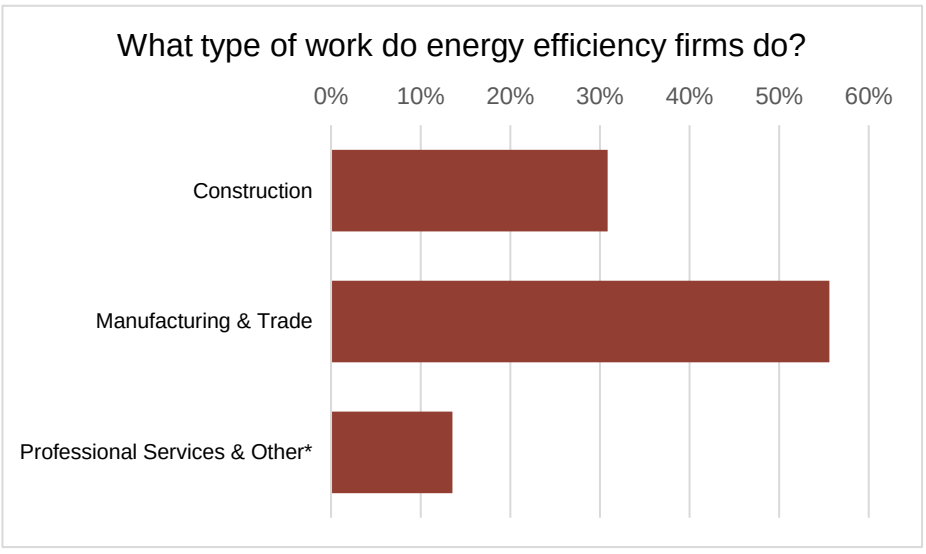
What does EE look like in Michigan?



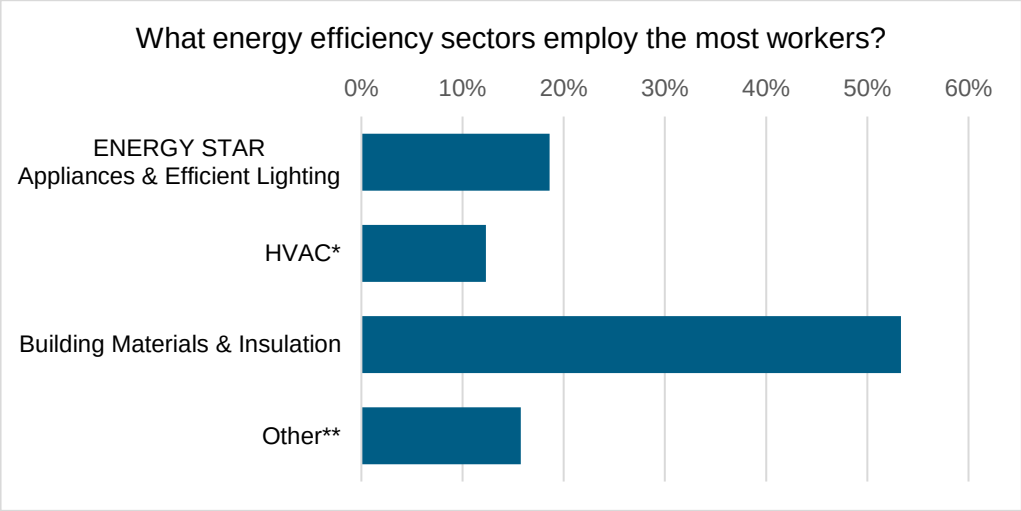


18,032
EE businesses in Michigan

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



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



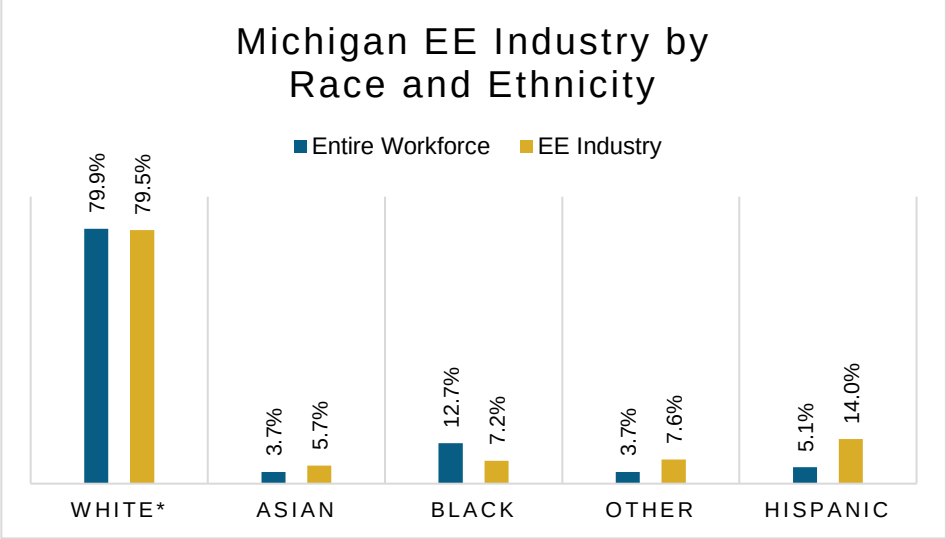
*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

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

How is EE doing on diversity in Michigan?

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 Michigan 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.



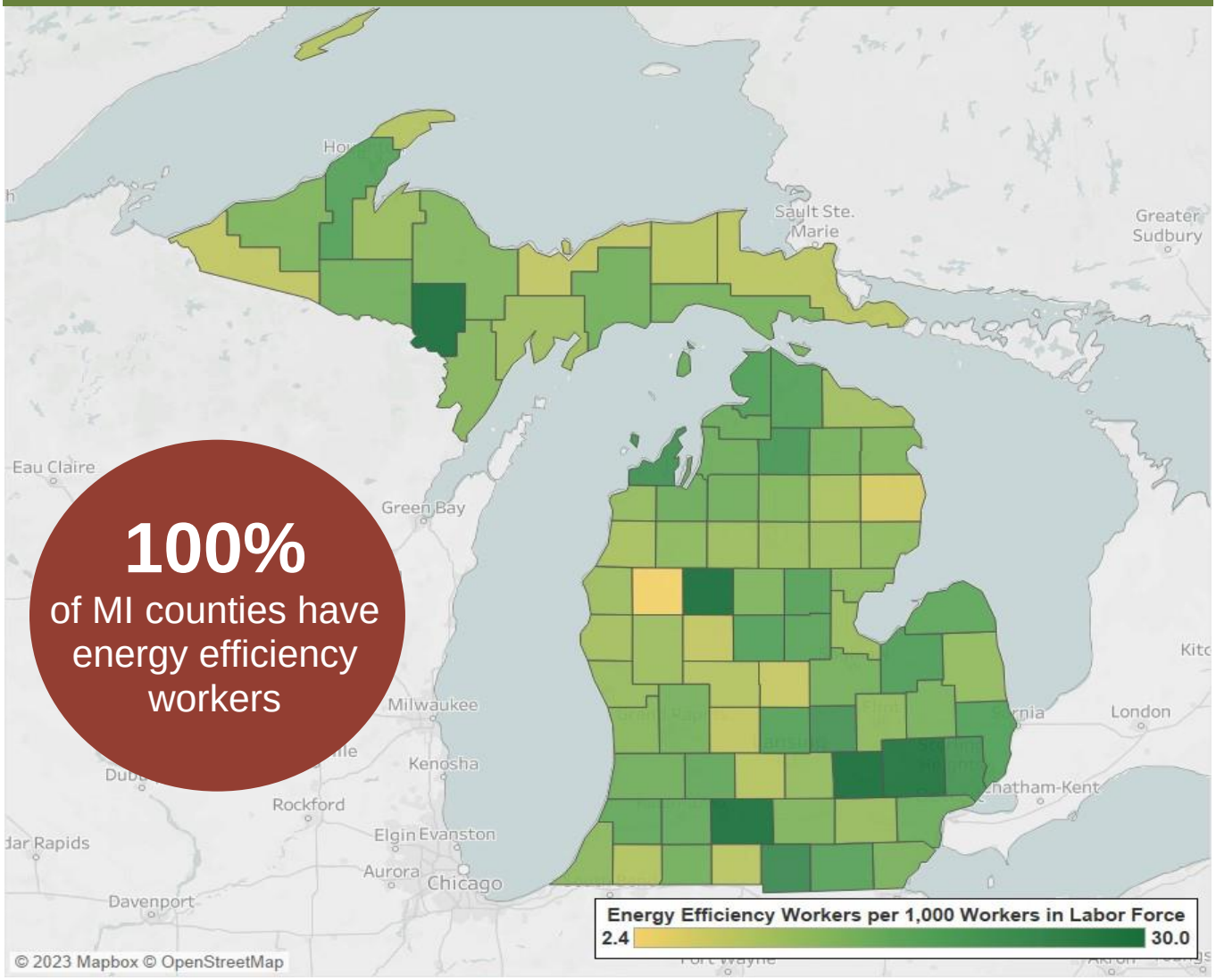
*Includes non-Hispanic and Hispanic whites.

Gender in the Michigan 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 MI 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	District	Jobs	Area	Jobs	Area	Jobs
1	7,479	9	8,971	Ann Arbor	2,372	Kalamazoo-Portage	2,275
2	7,935	10	4,670	Battle Creek	1,582	Lansing-East Lansing	2,399
3	3,843	11	5,508	Bay City	367	Monroe	547
4	5,687	12	3,375	Detroit-Warren-Dearborn	41,966	Muskegon	693
5	3,473	13	3,597	Flint	1,593	Niles-Benton Harbor	722
6	5,098	14	3,218	Grand Rapids-Wyoming	8,033	Saginaw	1,165
7	7,347			Holland	575	South Bend-Mishawaka	77
8	4,883			Jackson	777	Rural	9,941

State Upper House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	2,984	11	4,993	21	2,302	31	1,898
2	618	12	3,904	22	1,938	32	1,099
3	1,730	13	2,681	23	2,438	33	1,574
4	298	14	1,730	24	922	34	1,286
5	612	15	1,910	25	2,005	35	2,803
6	1,121	16	1,993	26	3,386	36	1,590
7	2,414	17	1,713	27	1,078	37	2,143
8	3,278	18	2,293	28	3,576	38	2,266
9	1,589	19	2,260	29	362		
10	1,146	20	1,930	30	1,220		

State Lower House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	526	35	2,023	69	47	103	868
2	261	36	518	70	708	104	435
3	507	37	1,726	71	216	105	1,245
4	582	38	1,699	72	2,012	106	917
5	725	39	365	73	2,237	107	574
6	849	40	1,244	74	1,219	108	852
7	89	41	1,169	75	333	109	677
8	487	42	1,269	76	<10	110	744
9	172	43	495	77	102		
10	<10	44	351	78	496		
11	1,069	45	410	79	394		
12	1,055	46	433	80	1,137		
13	704	47	808	81	891		
14	431	48	526	82	513		
15	85	49	93	83	419		
16	<10	50	326	84	528		
17	703	51	138	85	613		
18	1,099	52	1,747	86	257		
19	568	53	752	87	202		
20	1,350	54	406	88	669		
21	<10	55	<10	89	550		
22	540	56	404	90	<10		
23	120	57	765	91	896		
24	906	58	669	92	110		
25	708	59	1,049	93	358		
26	1,781	60	1,615	94	1,117		
27	650	61	83	95	252		
28	476	62	976	96	335		
29	1,733	63	362	97	685		
30	857	64	771	98	651		
31	454	65	149	99	404		
32	484	66	999	100	505		
33	310	67	1,325	101	1,515		
34	1,040	68	1,070	102	349		

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