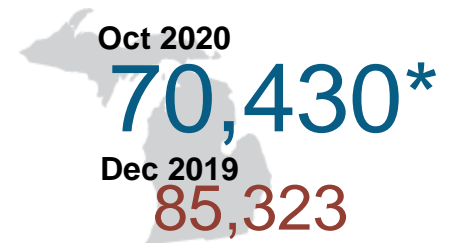


Michigan

Energy Efficiency Jobs in America



Clean energy workers are a huge and important part of America's workforce. We know from our country's last economic crisis that clean energy can lead the way to recovery.

Hundreds of thousands of workers are ready to return to work to build a better, cleaner, more equitable economy for tomorrow. With innovative policies we could get these workers back on the job today. Congress can start by spurring investments in energy efficiency (EE) and help the economy recover and grow for years to come.

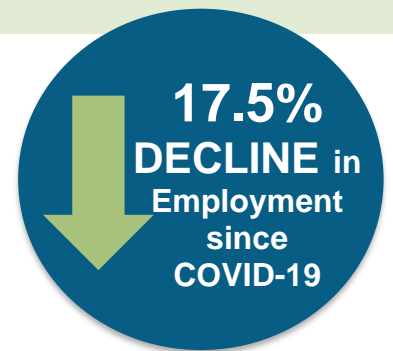
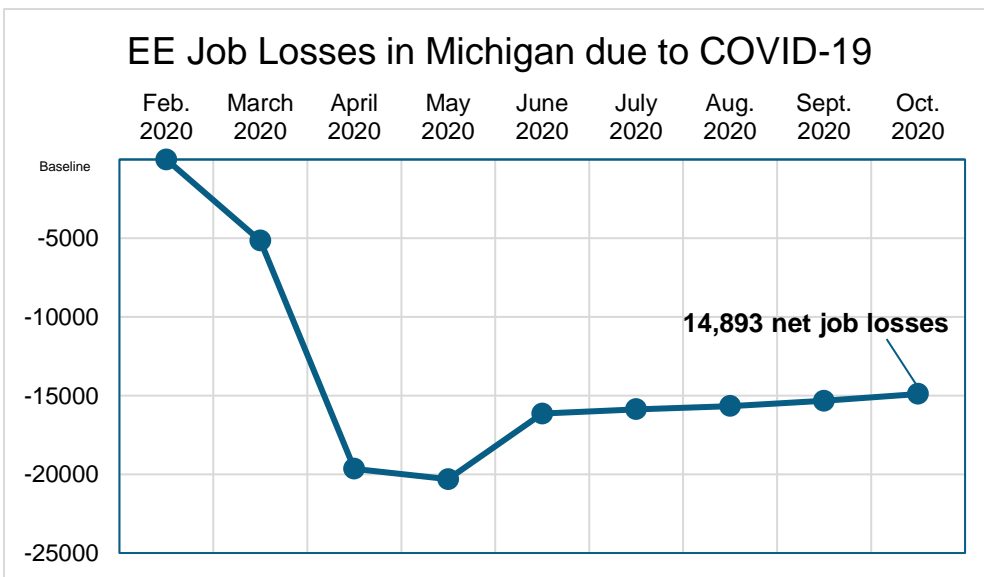
COVID-19 Impacts on the EE Job Sector

The 2020 pandemic shocked our nation's labor market with massive job losses. Michigan's energy efficiency industry lost as many as 14,893 jobs since its onset, a 17.5% decrease compared to total jobs in December 2019—wiping out the last 2 years of gains.

This disruption continues to ripple throughout the supply chain, slowing or halting the manufacture of efficiency equipment and components including insulation; windows; heating, ventilation, and air conditioning (HVAC) equipment; and other building systems technologies.

The energy efficiency workforce has the skills and expertise to meet this moment. Historically the Michigan EE workforce grew steadily, gaining 0.3% since 2018.**

As the U.S. advances our economic recovery, policy solutions must create conditions to return to work laid-off/furloughed EE workers and to create a pathway for new workers to join this vital sector.



Presented by:



*Source: [Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, March 2020-October 2020](#).
**first available sector-specific data

What are EE Jobs?

Jobs that deliver goods and services that lower energy use by improving technologies, appliances, buildings, and energy systems.

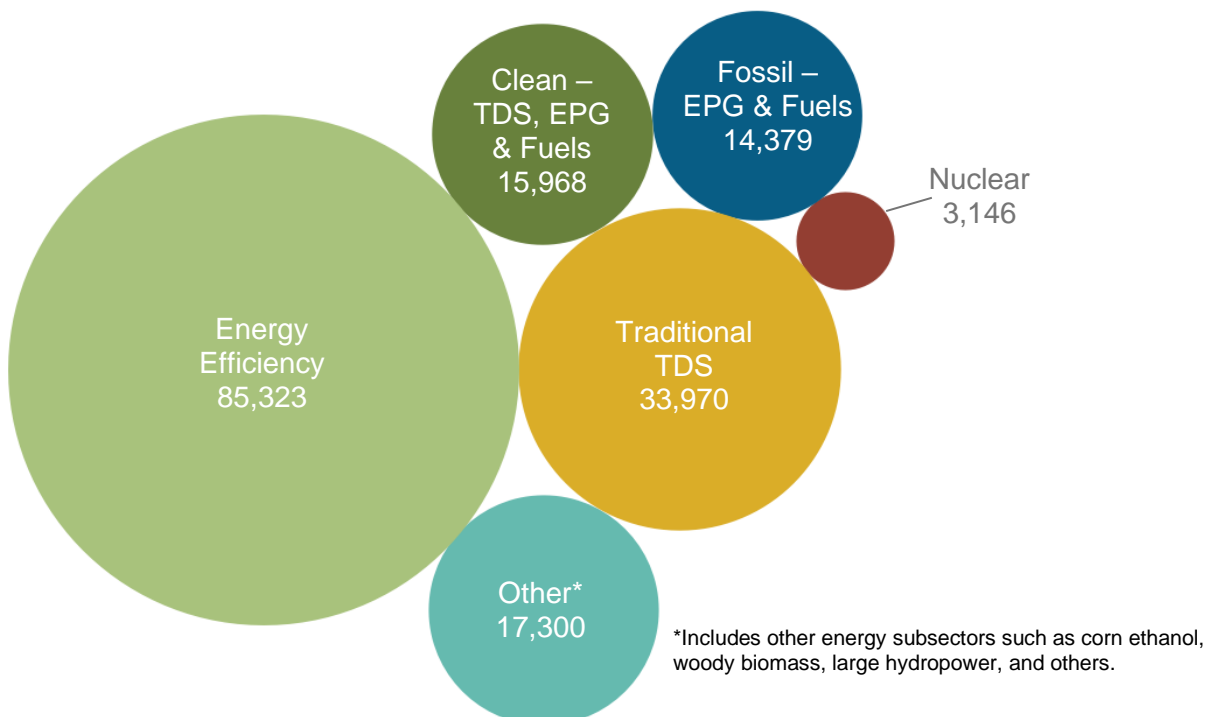
What type of work are EE workers doing?

- 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 energy data using software to maximize 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

All EE jobs counted in this report enhance energy efficiency. The above descriptions provide illustrative examples of what some EE workers do, and should not be considered an exhaustive list of all efficiency work.

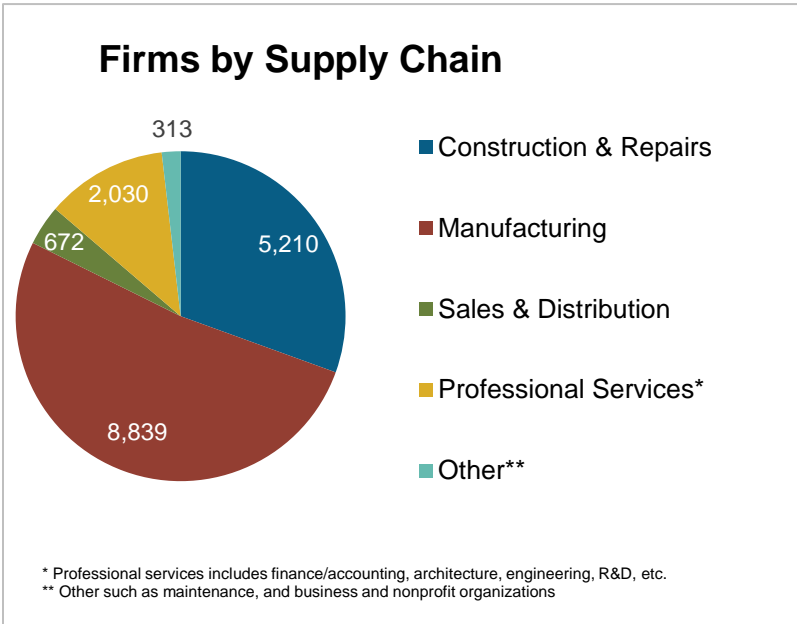
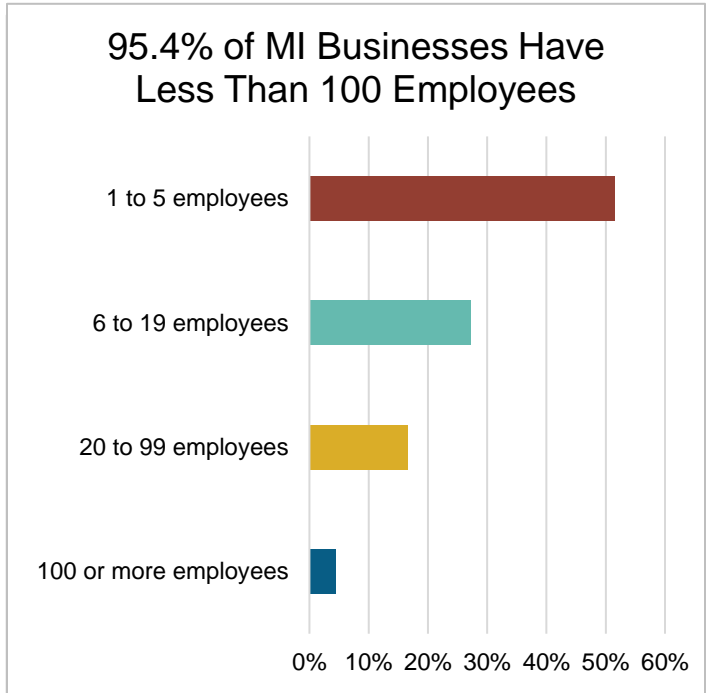
How does EE compare in Michigan?

Energy efficiency is the largest energy sector in Michigan.

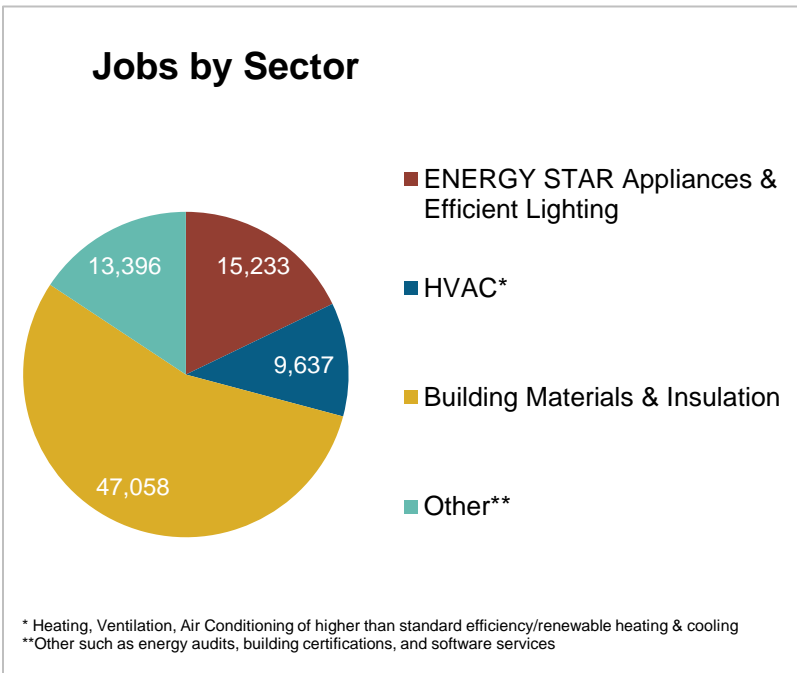


What do the EE businesses look like in Michigan?

EE Sector =
17,065
 Businesses in MI
 (Dec. 2019)
 ↑ **50** over 2018



6.6%
 of Michigan
 residents employed
 in EE are **Veterans**

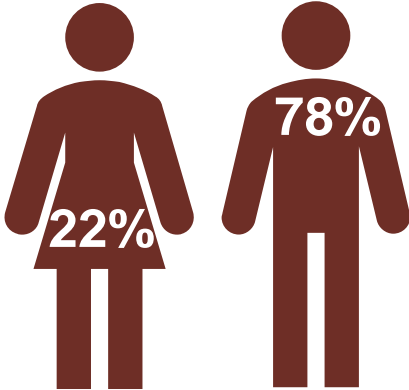
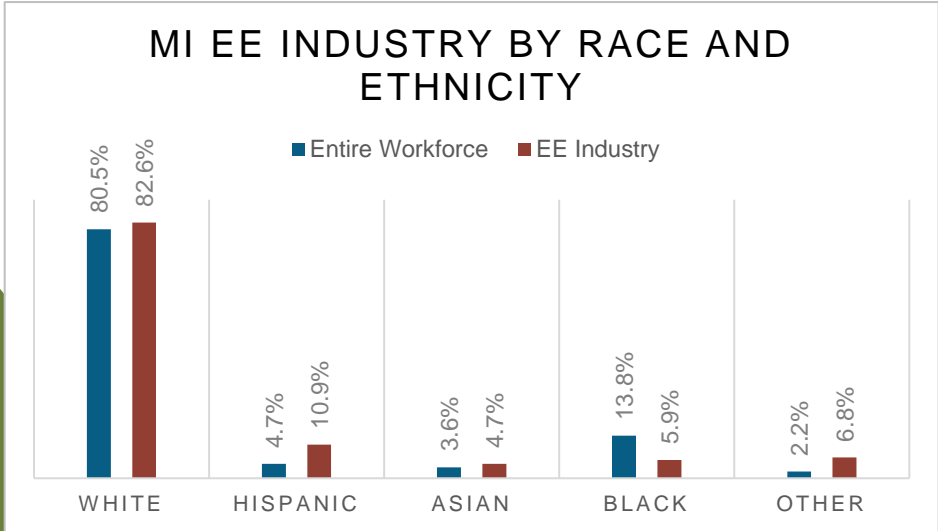


**Energy Efficiency
 Construction Workers
 Make Up 14% of MI
 Construction Workers**

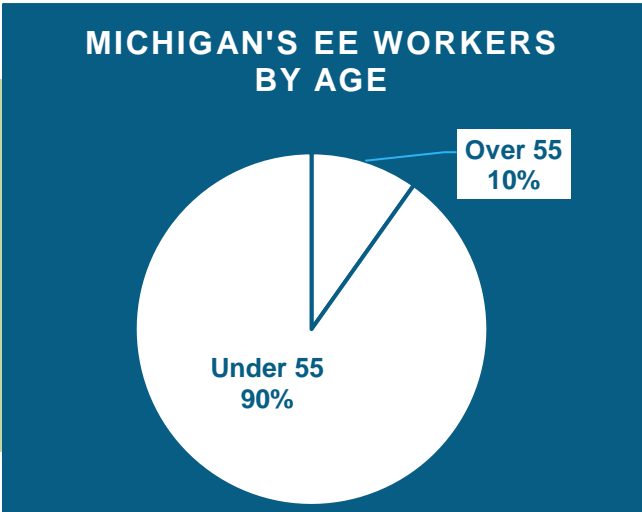
How is EE Doing regarding Diversity in Michigan?

Demographic data is crucial for benchmarks and to measure progress in the energy efficiency industry. In striving for more diversity in EE jobs, we can create a stronger and more inclusive industry. Promoting diversity in hiring is key to maintaining a future workforce of talented 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 will enable them to obtain and/or retain employment at EE businesses.



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.



A significant portion of the Michigan efficiency workforce is in the “55+” category. 10% are likely to retire within the next ten years, providing career opportunities for current and future professionals.

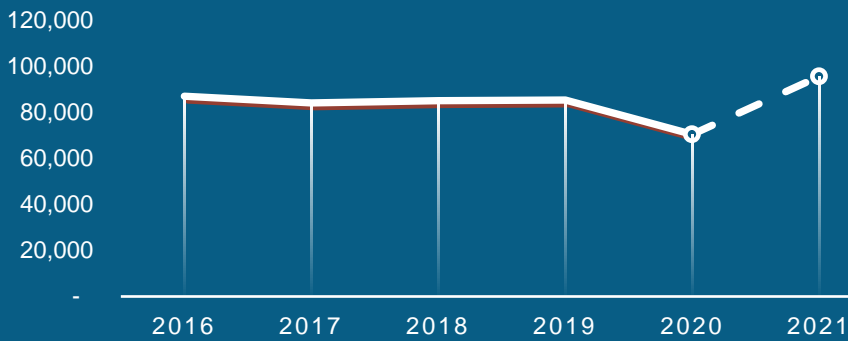
Why invest in EE?

Economic benefits of a federal energy efficiency stimulus package include high-quality jobs for U.S. residents, worker income, boosts to local, state, and federal tax revenues, contributions to Gross Domestic Product (GDP), and energy cost savings.

All these benefits ultimately translate to greater cash flow and stronger local economies. Energy efficiency jobs are proven to be sustainable wage positions that are accessible to all localities nationwide — regardless of geography or politics — providing new jobs that cannot be outsourced.

Updates to U.S. energy infrastructure are investments in the collective economic future of Americans; the creation of a more resilient energy system is vital to economic growth and security.

MICHIGAN PROJECTED STIMULUS JOB IMPACTS



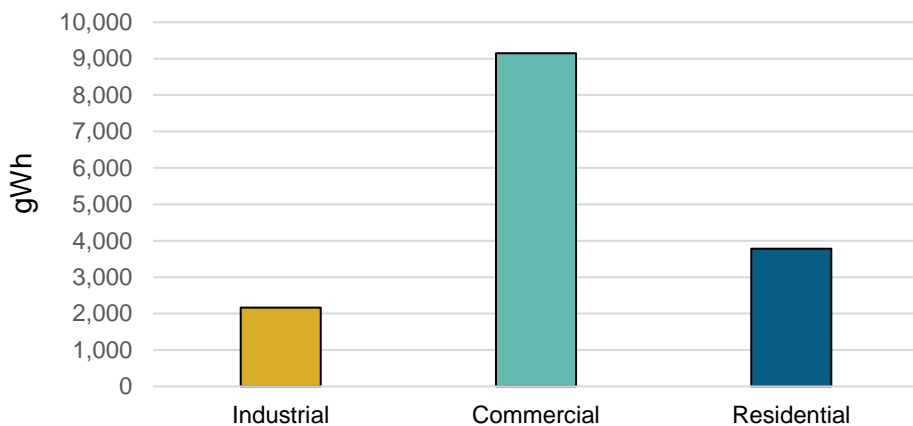
Source: [Build Back Better, Faster](#).

Modeling finds that federal investment would create **25,205 full-time direct, indirect, and induced MI jobs** that will last for at least five years: Over **126,024 job-years** total.

A stimulus of this level and the jobs it would create would also generate more than **\$1.6 billion in GDP** each year for the next five years — resulting in **\$8.2 billion in economic activity**, more than 4.3 times the investment.

How much energy efficiency is untapped in your state?

Michigan Energy Efficiency Potential by Sector



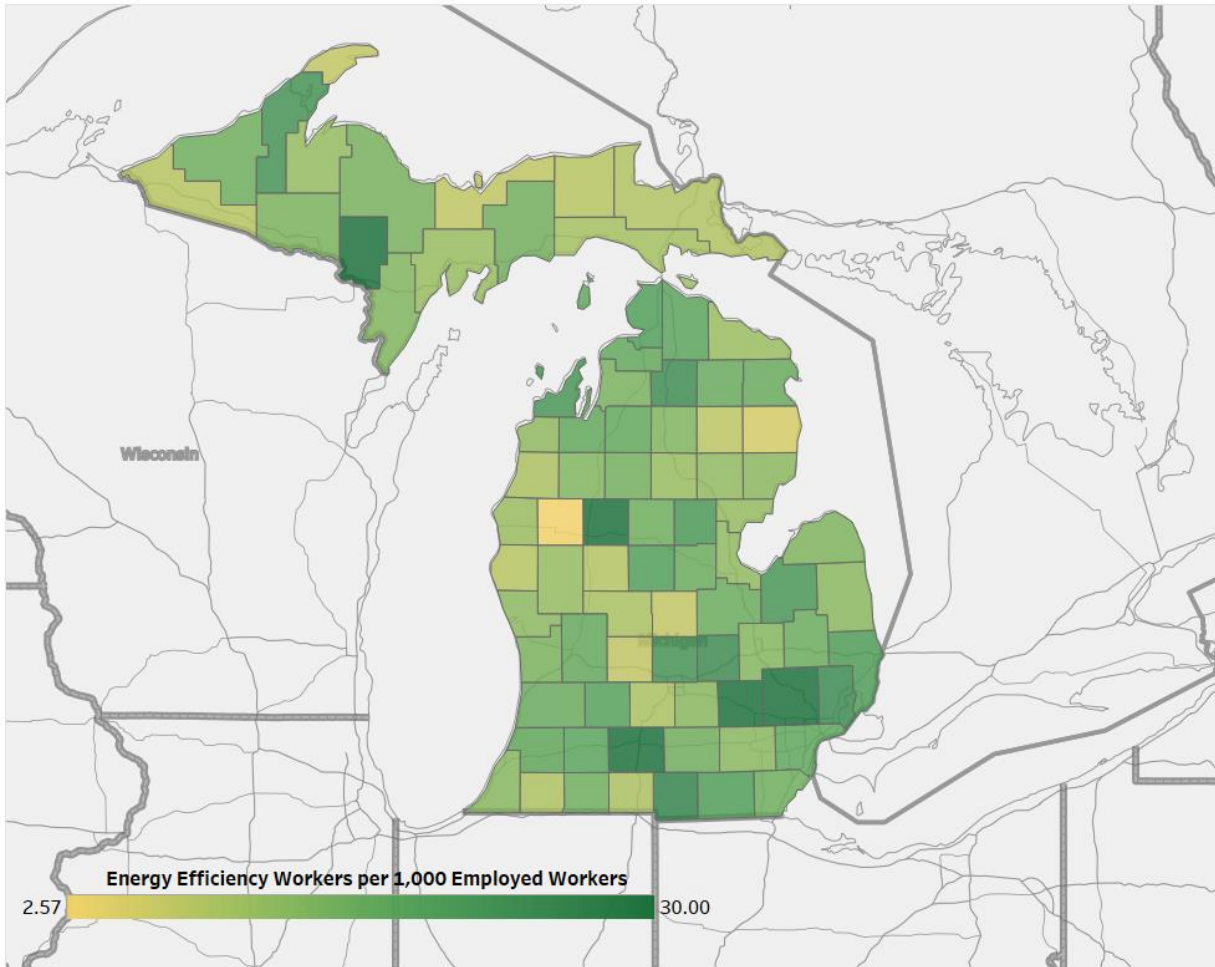
Source: [State and Local Planning for Energy \(SLOPE\) Platform](#).

Combined, this would displace the annual electricity consumption of **1,974,566 homes**.

Where are EE Jobs?

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	8,499	Ann Arbor	3,320
2	9,018	Battle Creek	1,007
3	4,368	Bay City	661
4	6,462	Detroit-Warren-Livonia	37,524
5	3,947	Flint	2,600
6	5,793	Grand Rapids-Wyoming	7,239
7	8,347	Holland-Grand Haven	2,434
8	5,547	Jackson	1,114
9	10,195	Kalamazoo-Portage	2,752
10	5,307	Lansing-East Lansing	3,637
11	6,259	Monroe	930
12	3,836	Muskegon-Norton Shores	1,145
13	4,088	Niles-Benton Harbor	1,846
14	3,656	Saginaw-Saginaw Township North	1,717
		South Bend-Mishawaka	350
		Rural	17,046

Energy Efficiency Jobs by County



State Upper House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	3,391	11	5,675	21	2,616	31	2,157
2	702	12	4,437	22	2,202	32	1,249
3	1,966	13	3,047	23	2,770	33	1,789
4	339	14	1,966	24	1,048	34	1,462
5	696	15	2,170	25	2,278	35	3,185
6	1,274	16	2,265	26	3,844	36	1,807
7	2,744	17	1,947	27	1,225	37	2,435
8	3,726	18	2,606	28	4,064	38	2,575
9	1,806	19	2,568	29	411		
10	1,302	20	2,194	30	1,386		

State Lower House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	598	35	2,299	69	54	103	986
2	296	36	588	70	804	104	495
3	576	37	1,961	71	245	105	1,414
4	662	38	1,930	72	2,287	106	1,042
5	823	39	415	73	2,542	107	653
6	965	40	1,413	74	1,385	108	969
7	102	41	1,329	75	378	109	769
8	553	42	1,442	76	<5	110	846
9	196	43	563	77	116		
10	<5	44	399	78	564		
11	1,214	45	465	79	448		
12	1,199	46	493	80	1,292		
13	800	47	919	81	1,012		
14	489	48	598	82	583		
15	97	49	105	83	477		
16	<5	50	370	84	600		
17	799	51	157	85	697		
18	1,248	52	1,984	86	292		
19	645	53	855	87	229		
20	1,534	54	461	88	760		
21	<5	55	<5	89	625		
22	614	56	459	90	<5		
23	136	57	870	91	1,018		
24	1,030	58	760	92	125		
25	805	59	1,192	93	407		
26	2,024	60	1,835	94	1,270		
27	739	61	94	95	287		
28	541	62	1,109	96	380		
29	1,968	63	411	97	779		
30	974	64	877	98	740		
31	516	65	169	99	459		
32	550	66	1,135	100	574		
33	352	67	1,506	101	1,722		
34	1,181	68	1,215	102	397		



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



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Data Source: Unless otherwise stated, all data are from the 2020 U.S. Energy and Employment Report, March 2020, by NASEO and EFI (see Appendix A, pages 201-206 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 U.S. Bureau of Labor Statistics -- provides the broadly accepted best accounting of all U.S. energy workers.