

Ohio

Energy Efficiency Jobs in America

Oct 2020

72,217*

Dec 2019

83,165

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.

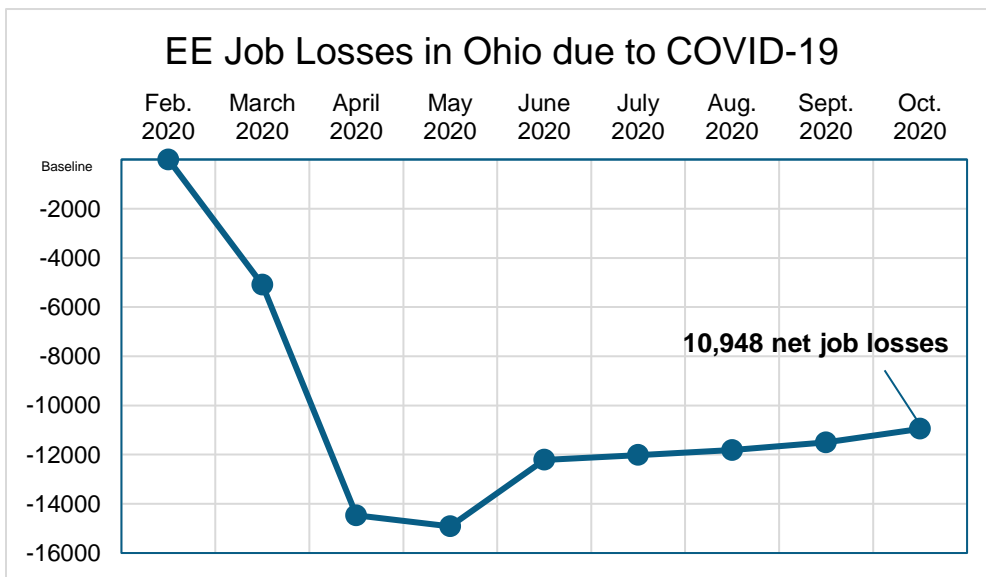
COVID-19 Impacts on the EE Job Sector

The 2020 pandemic shocked our nation's labor market with massive job losses. Ohio's energy efficiency industry lost as many as 10,948 jobs since its onset, a 13.2% decrease compared to total jobs in December 2019—wiping out the last 3 years of gains.

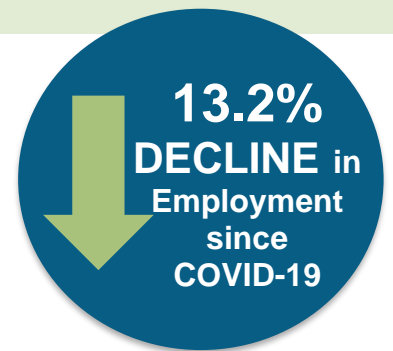
This disruption continues to ripple throughout the supply chain, slowing or halting the manufacture of efficiency equipment and components including insulation; windows; heating, ventilation, and air conditioning (HVAC) equipment; and other building systems technologies.

The energy efficiency workforce has the skills and expertise to meet this moment. Historically the Ohio EE workforce grew steadily, gaining 5.6% since 2016.**

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.



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



Presented by:



What are EE Jobs?

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

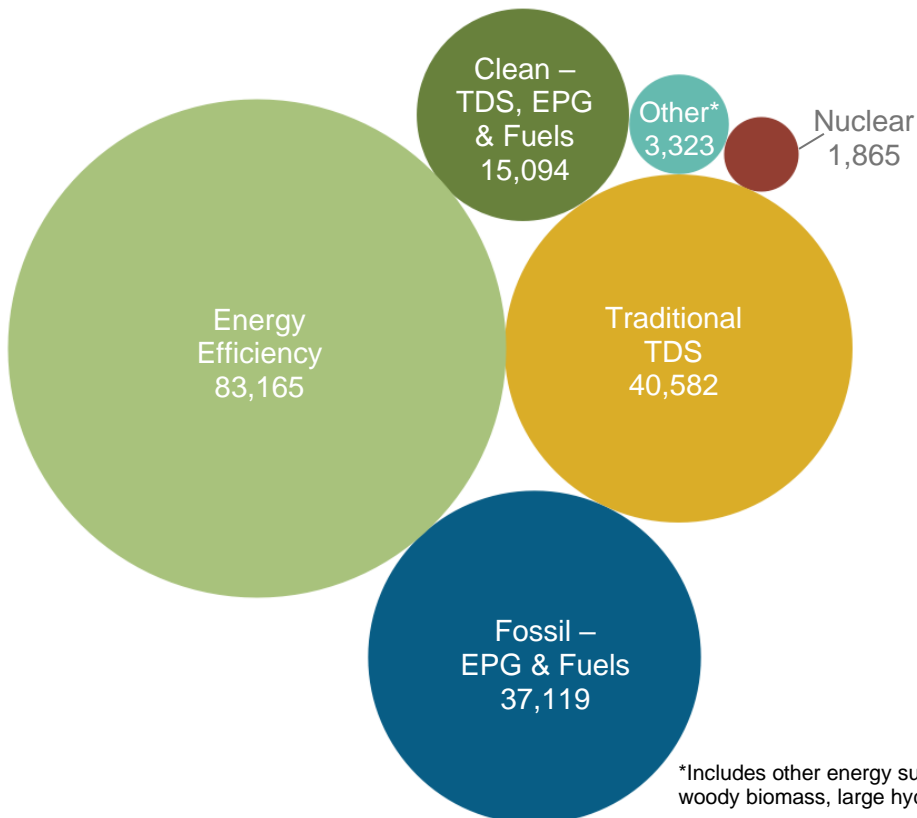
What type of work are EE workers doing?

- 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 Ohio?

Energy efficiency is the largest energy sector in Ohio.

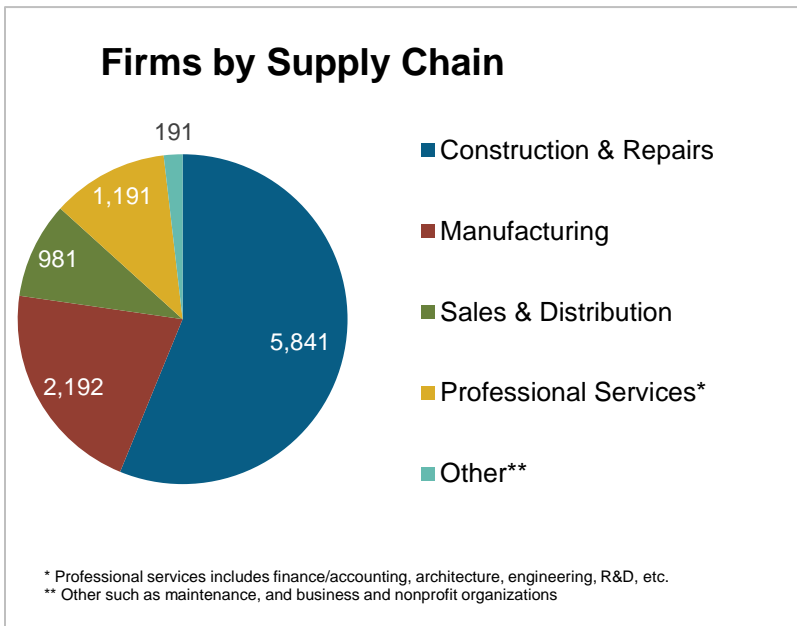
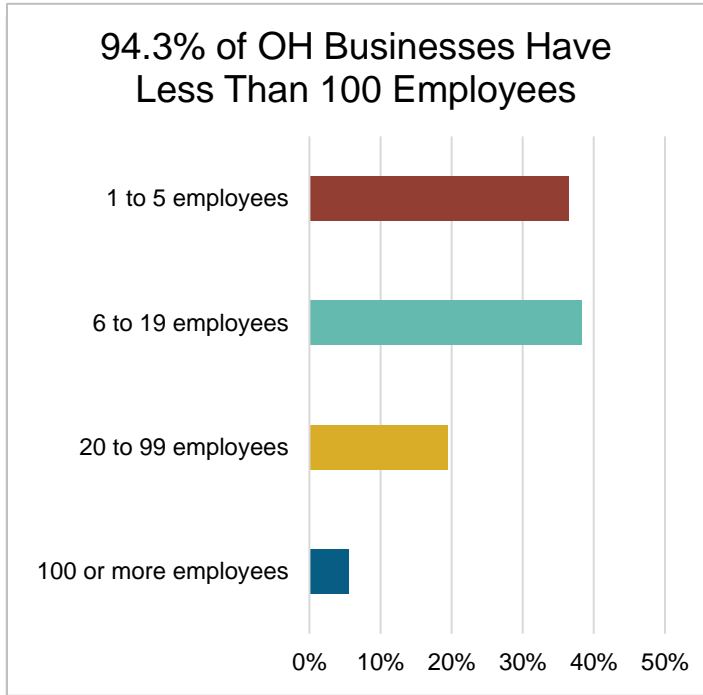



Energy efficiency in Ohio has seen consistent, reliable job growth – 5.6 percent since 2016.

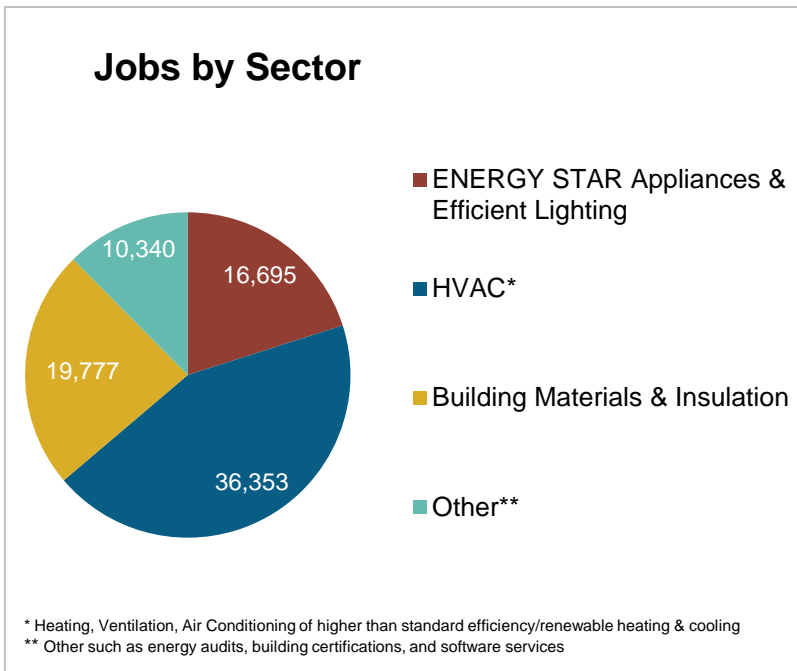
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

What do the EE businesses look like in Ohio?

EE Sector =
10,396
 Businesses in OH
 (Dec. 2019)
 ↑ **190** over 2018

7.0%
 of Ohio
 residents employed
 in EE are **Veterans**

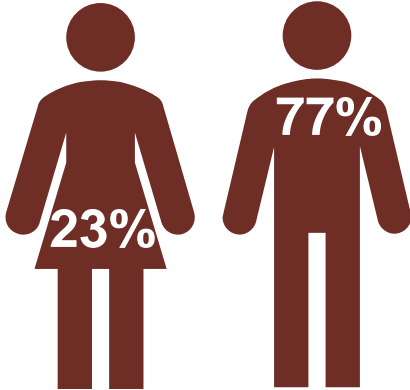
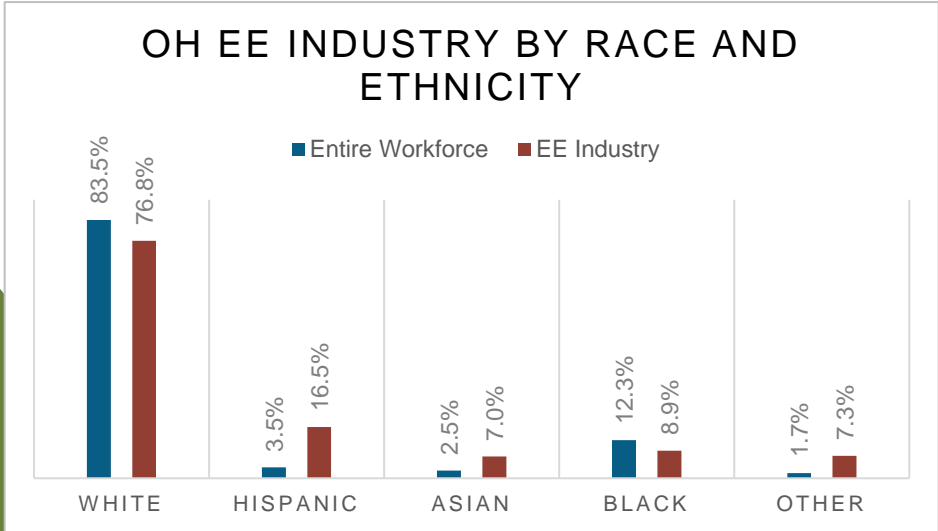



**Energy Efficiency
 Construction Workers
 Make Up 19% of OH
 Construction Workers**

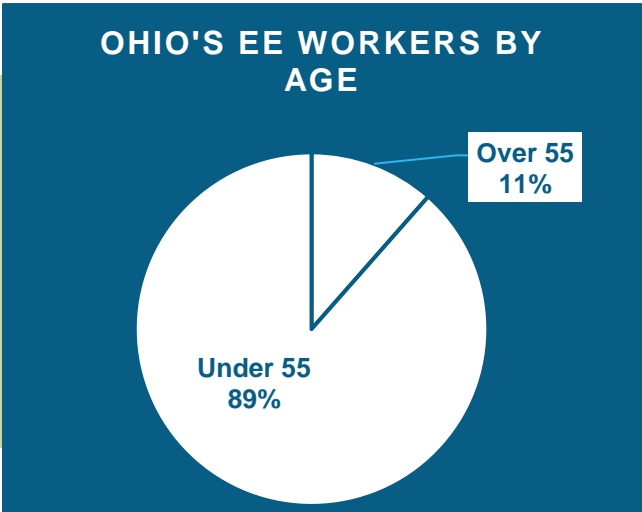
How is EE Doing regarding Diversity in Ohio?

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 Ohio 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.



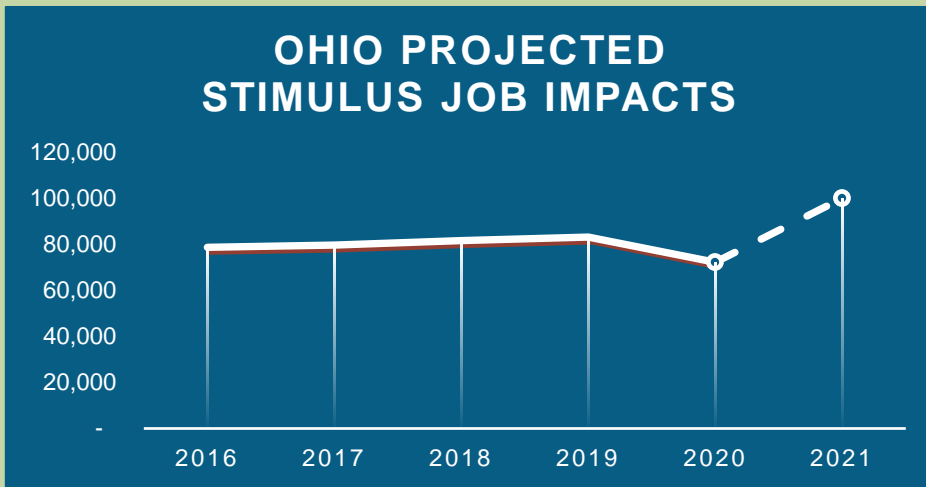
A significant portion of the Ohio efficiency workforce is in the "55+" category. 11% are likely to retire within the next ten years, providing career opportunities for current and future professionals.

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.

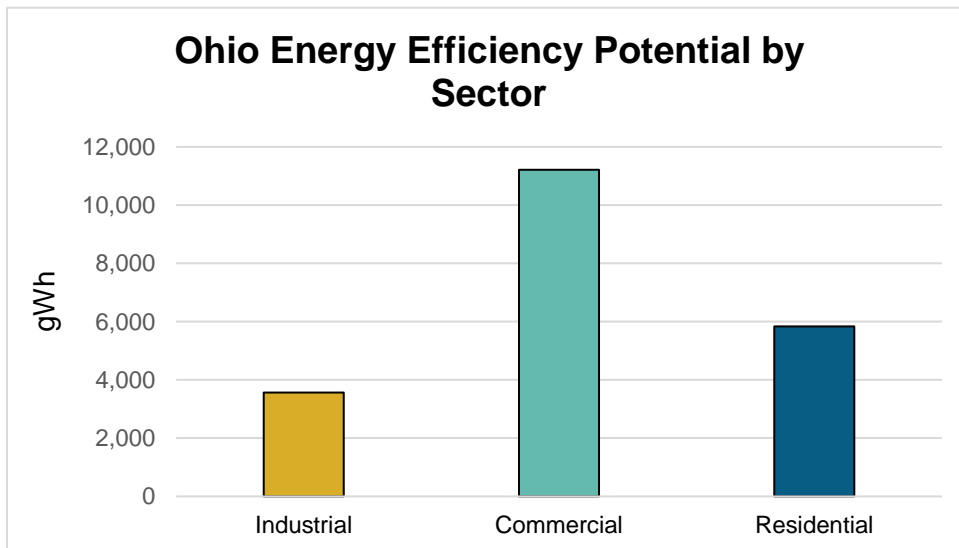


Source: [Build Back Better, Faster](#).

Modeling finds that federal investment would create **27,811 full-time direct, indirect, and induced OH jobs** that will last for at least five years: Over **139,054 job-years** total.

A stimulus of this level and the jobs it would create would also generate more than **\$1.8 billion in GDP** each year for the next five years — resulting in **\$9.2 billion in economic activity**, more than 4.2 times the investment.

How much energy efficiency is untapped in your state?



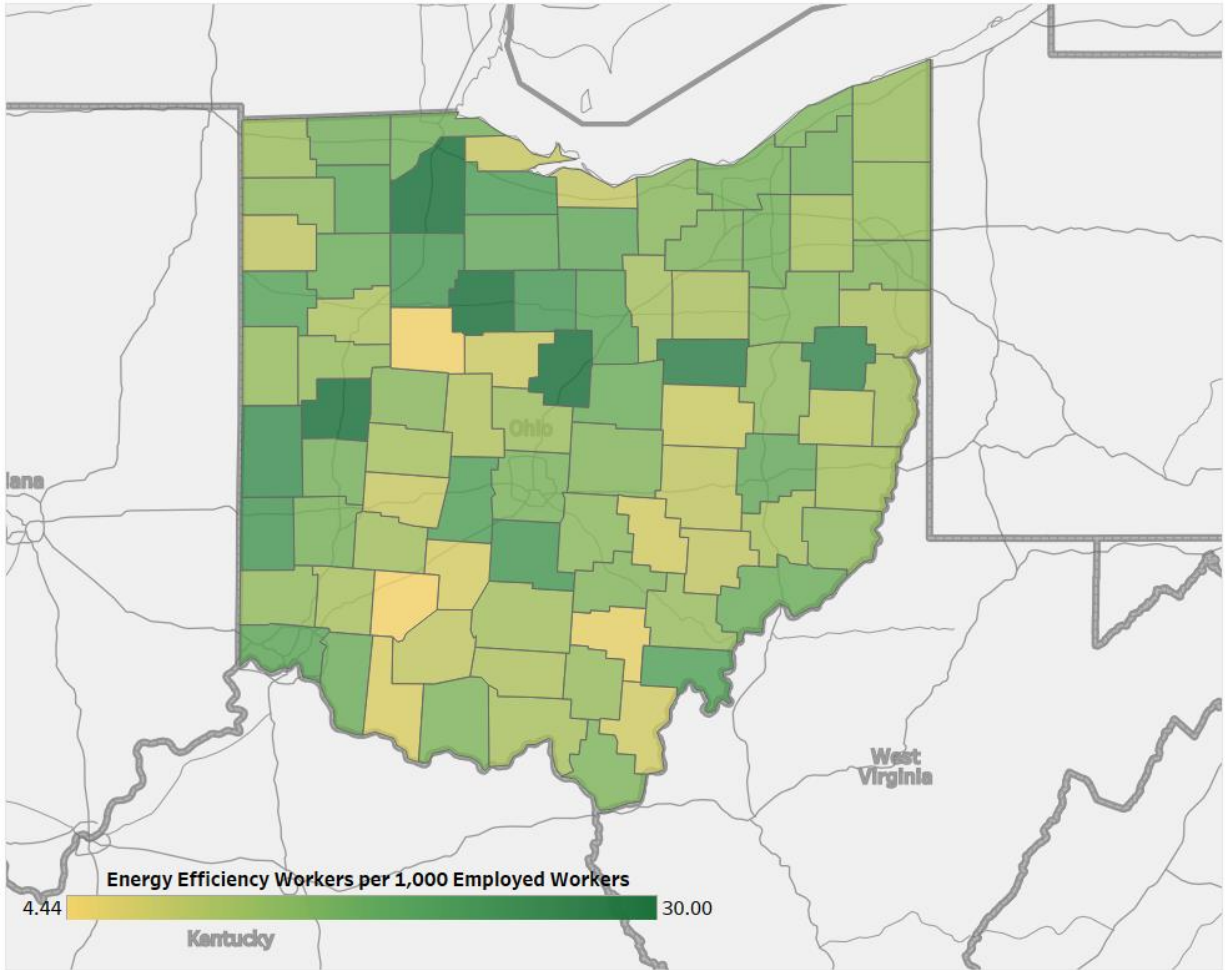
Source: [State and Local Planning for Energy \(SLOPE\) Platform](#).

Combined, this would displace the annual electricity consumption of **1,965,873 homes**.

Where are EE Jobs?

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	8,874	Akron	5,643
2	2,958	Canton-Massillon	2,709
3	7,567	Cincinnati-Middletown	11,747
4	7,878	Cleveland-Elyria-Mentor	16,345
5	8,796	Columbus	12,688
6	5,321	Dayton	5,460
7	6,634	Huntington-Ashland	217
8	3,403	Lima	722
9	3,535	Mansfield	1,051
10	3,898	Parkersburg-Marietta-Vienna	444
11	10,033	Sandusky	492
12	2,608	Springfield	719
13	4,448	Toledo	8,073
14	4,081	Weirton-Steubenville	267
15	1,684	Wheeling	339
16	1,445	Youngstown-Warren-Boardman	3,160
		Rural	13,089

Energy Efficiency Jobs by County



State Senate			
District	Jobs	District	Jobs
1	3,333	18	4,959
2	6,466	19	1,816
3	6,288	20	2,006
4	2,548	21	5,151
5	3,659	22	3,596
6	1,751	23	2,488
7	4,653	24	2,910
8	2,544	25	233
9	909	26	1,305
10	2,347	27	2,207
11	1,265	28	1,770
12	1,527	29	1,956
13	2,535	30	1,767
14	1,494	31	1,423
15	694	32	1,758
16	1,811	33	2,459
17	1,539		

State House of Representatives					
District	Jobs	District	Jobs	District	Jobs
1	1,014	39	1,808	77	509
2	1,392	40	1,227	78	938
3	4,571	41	1,097	79	400
4	861	42	387	80	634
5	961	43	369	81	759
6	3,747	44	1,659	82	444
7	777	45	277	83	1,140
8	719	46	735	84	827
9	510	47	687	85	170
10	2,736	48	1,078	86	321
11	147	49	480	87	499
12	<5	50	140	88	565
13	486	51	775	89	650
14	680	52	639	90	564
15	87	53	110	91	584
16	914	54	709	92	203
17	3,258	55	1,176	93	405
18	822	56	363	94	751
19	2,126	57	710	95	640
20	632	58	1,845	96	427
21	2,237	59	440	97	264
22	68	60	1,711	98	526
23	175	61	302	99	448
24	133	62	254		
25	<5	63	752		
26	<5	64	296		
27	3,626	65	451		
28	2,068	66	465		
29	1,163	67	1,199		
30	237	68	545		
31	695	69	274		
32	124	70	162		
33	151	71	881		
34	2,199	72	649		
35	742	73	645		
36	1,150	74	528		
37	1,295	75	375		
38	1,104	76	689		



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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.