

Oklahoma

Energy Efficiency Jobs in America

Oct 2020

12,236*

Dec 2019

15,046

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

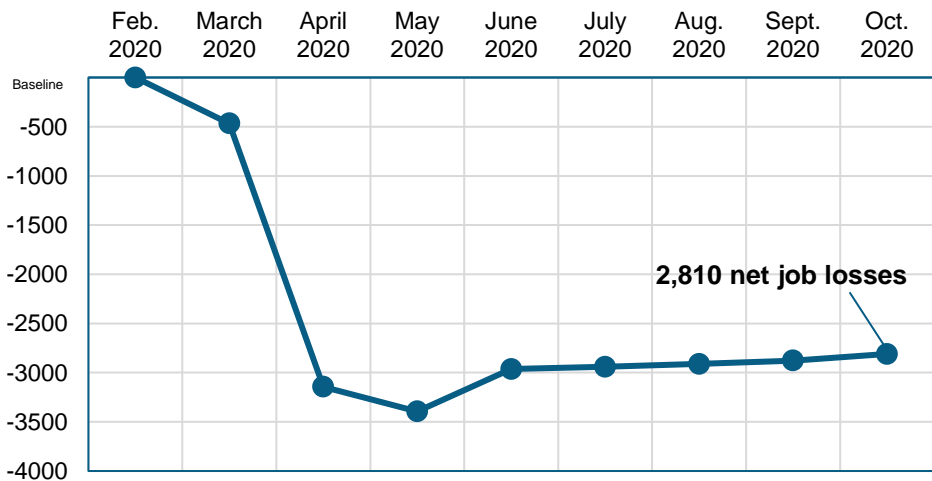
The 2020 pandemic shocked our nation's labor market with massive job losses. Oklahoma's energy efficiency industry lost as many as 2,810 jobs since its onset, a 18.7% decrease compared to total jobs in December 2019—wiping out the last 3 years of gains.

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.

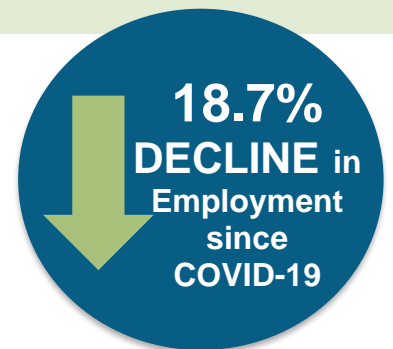
The energy efficiency workforce has the skills and expertise to meet this moment. Historically the Oklahoma EE workforce grew steadily, gaining 22.4% since 2016.**

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.

EE Job Losses in Oklahoma due to COVID-19



*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.

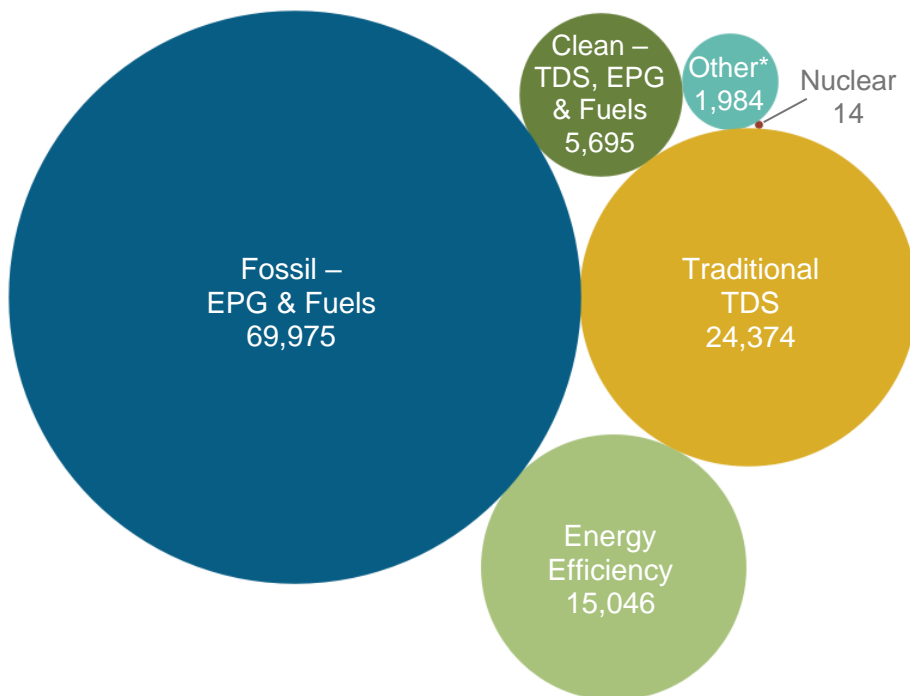
What type of work are EE workers doing?

- 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 Oklahoma?

Energy efficiency is the third largest energy sector in Oklahoma.

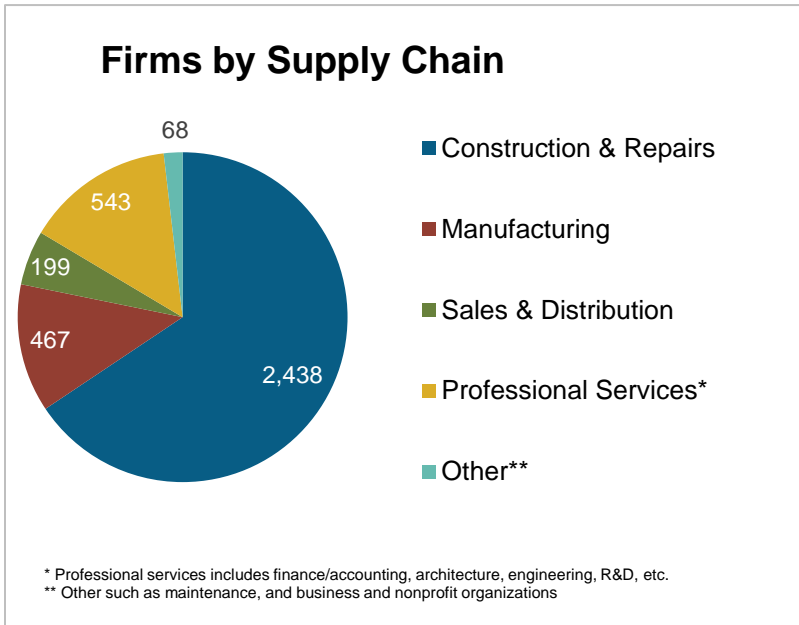
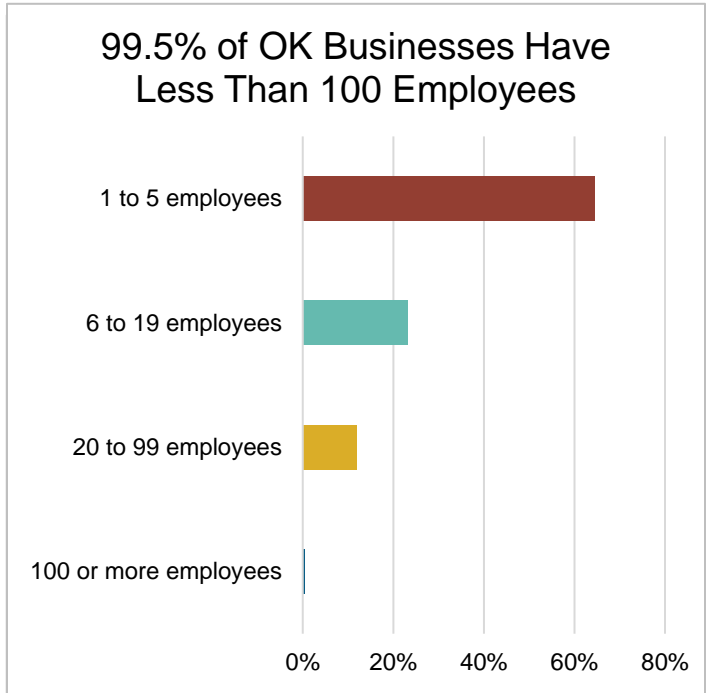


Fossil fuel jobs are historically key to Oklahoma’s energy economy, but the current job total doesn’t tell the full story. The number of fossil fuel jobs has faced consistent downward pressure for decades and continues to fall. By contrast, before COVID-19, energy efficiency has grown by 22.4% from 2016-2019, adding 2,752 jobs.

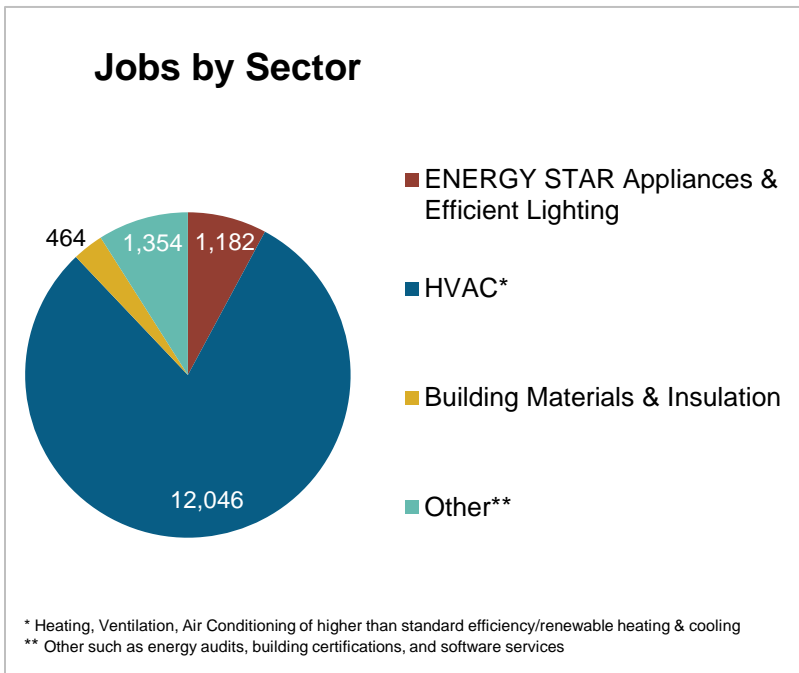
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

What do the EE businesses look like in Oklahoma?

EE Sector =
3,715
 Businesses in OK
 (Dec. 2019)
 ↑ **170** over 2018



8.8%
 of Oklahoma
 residents employed
 in EE are **Veterans**



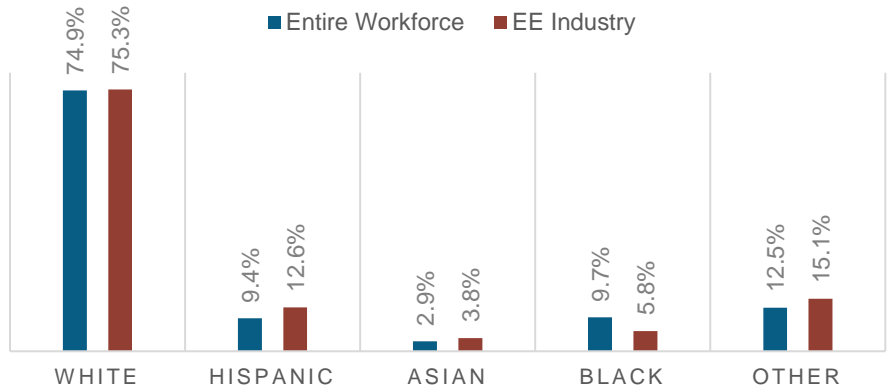
**Energy Efficiency
 Construction Workers
 Make Up 11% of OK
 Construction Workers**

How is EE Doing regarding Diversity in Oklahoma?

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 Oklahoma communities are represented in the EE sector.

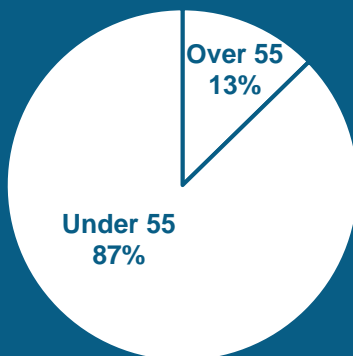
The EE industry needs to do more to prioritize minorities and women for training and support that will enable them to obtain and/or retain employment at EE businesses.

OK EE INDUSTRY BY RACE AND ETHNICITY



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.

OKLAHOMA'S EE WORKERS BY AGE



A significant portion of the Oklahoma efficiency workforce is in the “55+” category. 13% are likely to retire within the next ten years, providing career opportunities for current and future professionals.

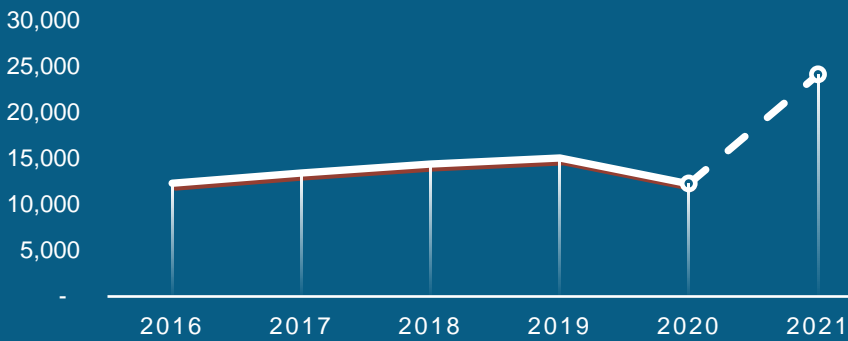
Why invest in EE?

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.

OKLAHOMA PROJECTED STIMULUS JOB IMPACTS



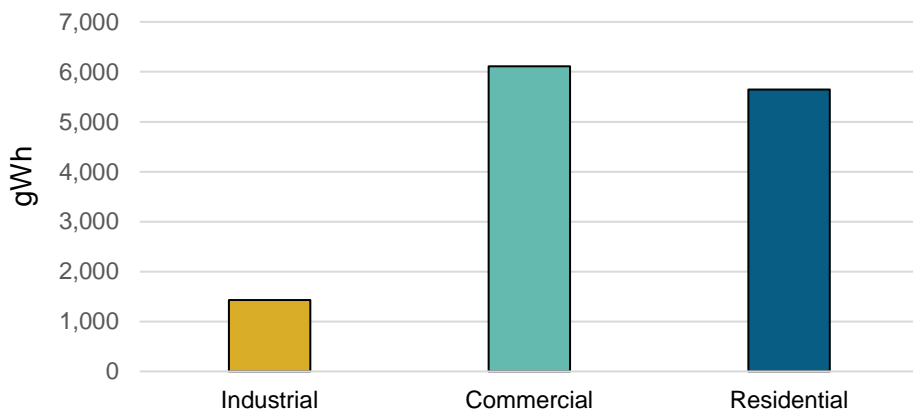
Source: [Build Back Better, Faster](#).

Modeling finds that federal investment would create **11,879 full-time direct, indirect, and induced OK jobs** that will last for at least five years: Over **59,393 job-years** total.

A stimulus of this level and the jobs it would create would also generate more than **\$702 million in GDP** each year for the next five years – resulting in **\$3.5 billion in economic activity**, more than 3.9 times the investment.

How much energy efficiency is untapped in your state?

Oklahoma Energy Efficiency Potential by Sector



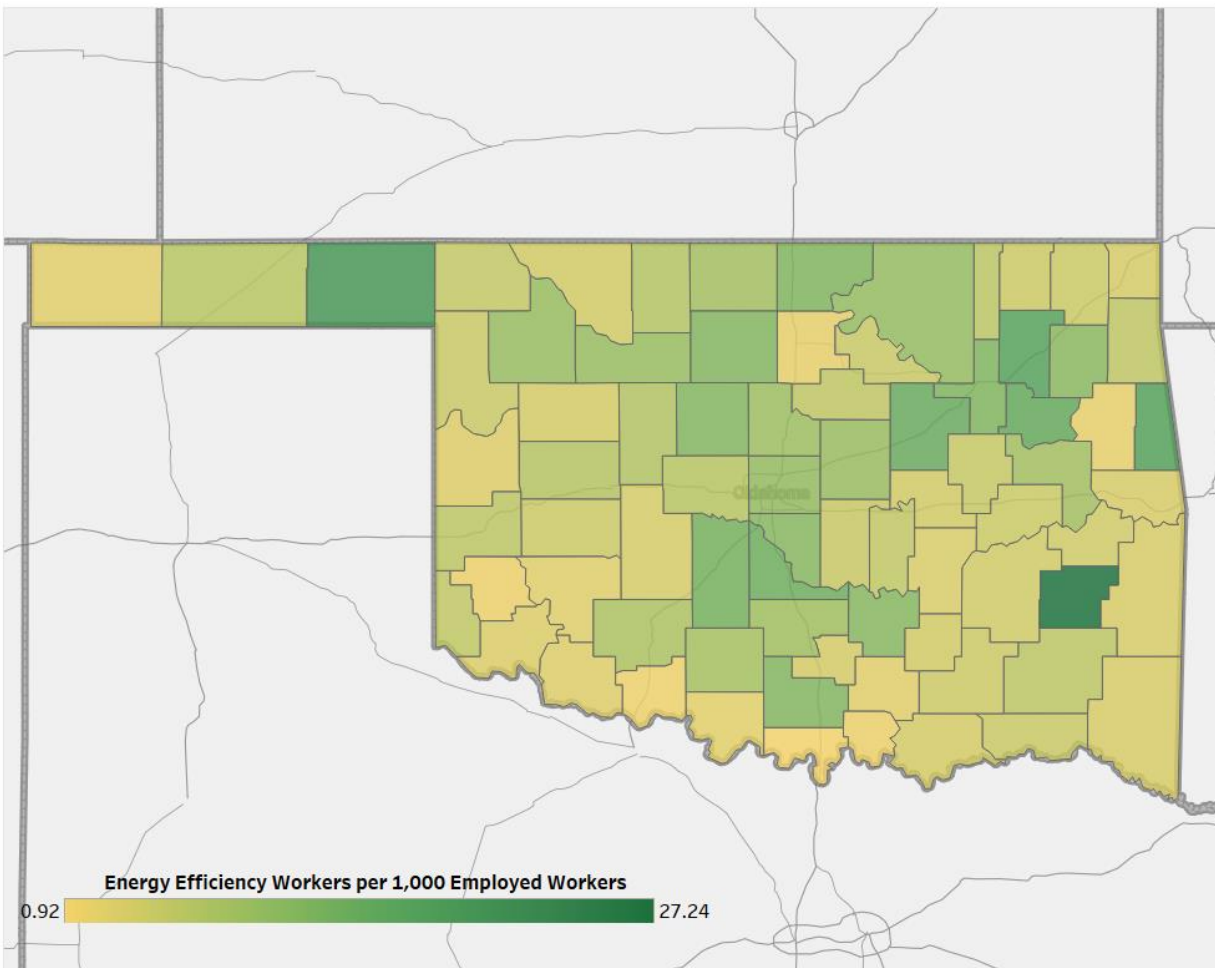
Source: [State and Local Planning for Energy \(SLOPE\) Platform](#).

Combined, this would displace the annual electricity consumption of **984,651 homes**.

Where are EE Jobs?

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	4,216	Fort Smith	129
2	2,175	Lawton	276
3	3,013	Oklahoma City	5,706
4	2,126	Tulsa	4,250
5	3,516	Rural	4,684

Energy Efficiency Jobs by County



State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	451	13	410	25	807	37	<5
2	532	14	311	26	348	38	119
3	167	15	770	27	334	39	<5
4	120	16	<5	28	76	40	435
5	158	17	620	29	154	41	<5
6	183	18	438	30	1,046	42	112
7	317	19	371	31	426	43	96
8	212	20	541	32	13	44	1,085
9	107	21	229	33	<5	45	21
10	496	22	485	34	47	46	75
11	963	23	390	35	867	47	60
12	311	24	102	36	26	48	217

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	81	27	328	53	67	79	<5
2	44	28	139	54	369	80	<5
3	62	29	229	55	277	81	144
4	162	30	47	56	70	82	241
5	361	31	343	57	70	83	294
6	240	32	117	58	217	84	484
7	22	33	246	59	11	85	293
8	160	34	12	60	9	86	10
9	195	35	58	61	160	87	<5
10	314	36	44	62	213	88	545
11	<5	37	174	63	68	89	244
12	153	38	363	64	<5	90	38
13	124	39	415	65	23	91	<5
14	8	40	<5	66	504	92	<5
15	83	41	342	67	799	93	<5
16	169	42	55	68	45	94	100
17	184	43	208	69	<5	95	51
18	62	44	237	70	398	96	12
19	175	45	<5	71	<5	97	200
20	432	46	<5	72	363	98	<5
21	10	47	189	73	315	99	44
22	433	48	48	74	<5	100	<5
23	633	49	43	75	<5	101	<5
24	65	50	121	76	<5		
25	<5	51	141	77	<5		
26	200	52	101	78	<5		



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.