North Carolina

Energy Efficiency Jobs in America

78,338
Total Jobs

What are EE Jobs?

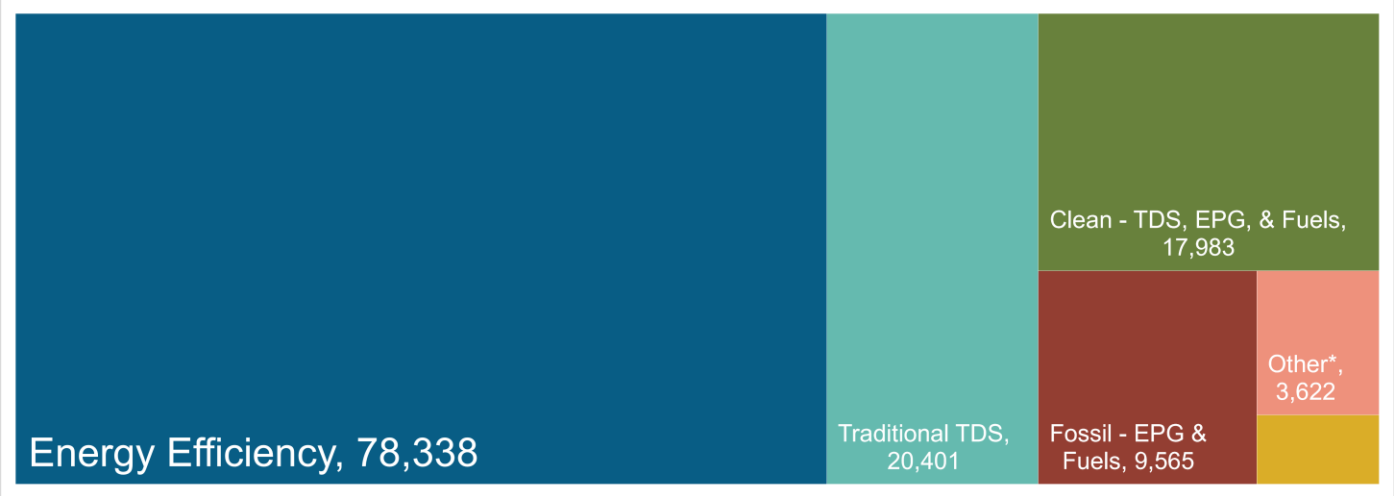
Jobs that deliver goods and services that lower energy use by improving energy efficiency – with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 North Carolina?

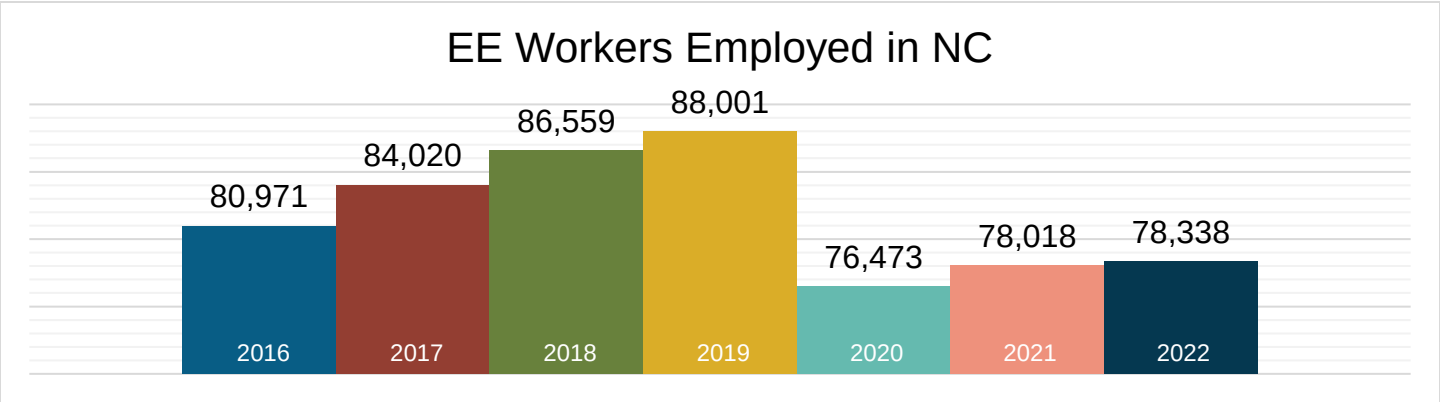
Energy Efficiency is the largest energy sector in North Carolina.

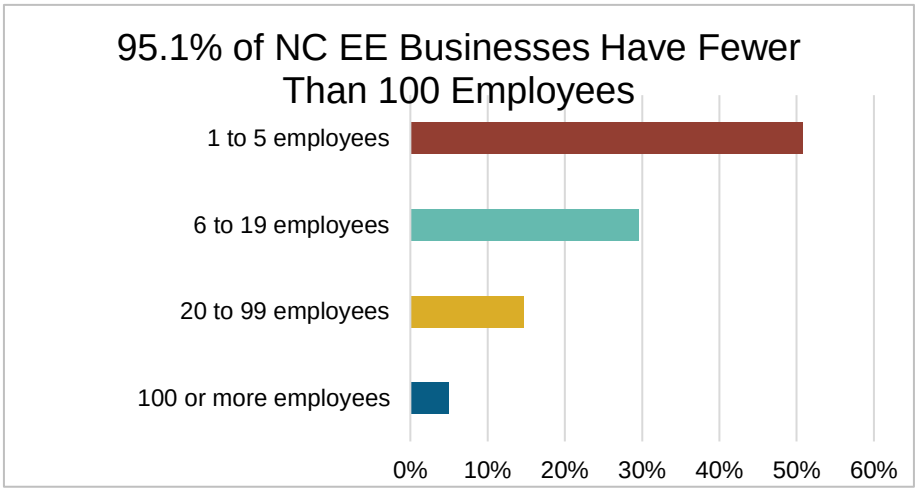


TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
Nuclear (EPG & Fuels) = 1,736
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by: E2 E4 THE FUTURE

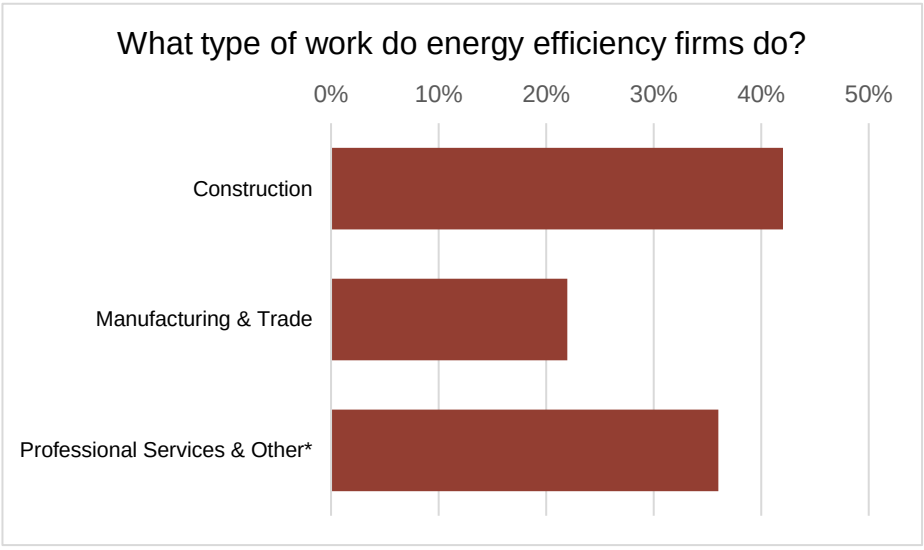
What does EE look like in North Carolina?



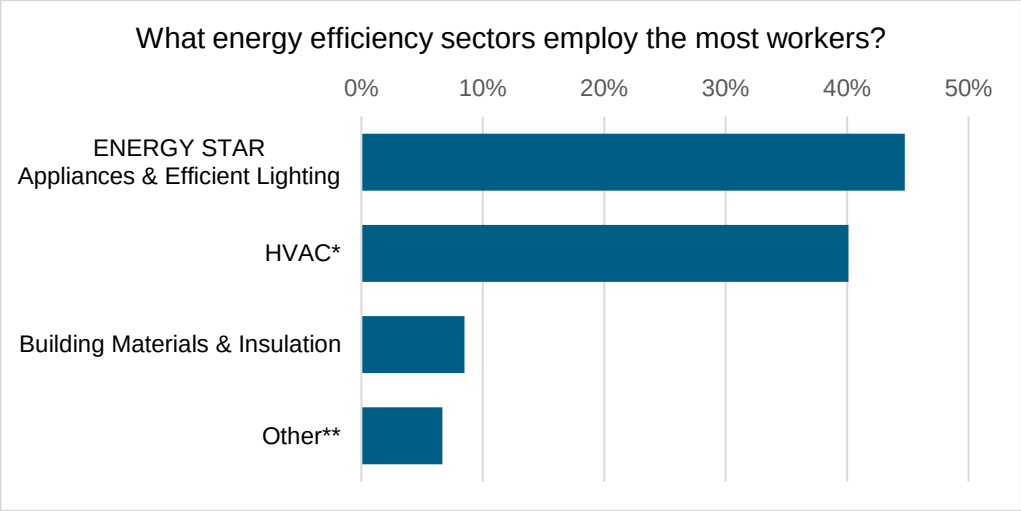


16,169
EE businesses in North Carolina

EE construction workers comprise **13%** of North Carolina's construction workforce



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



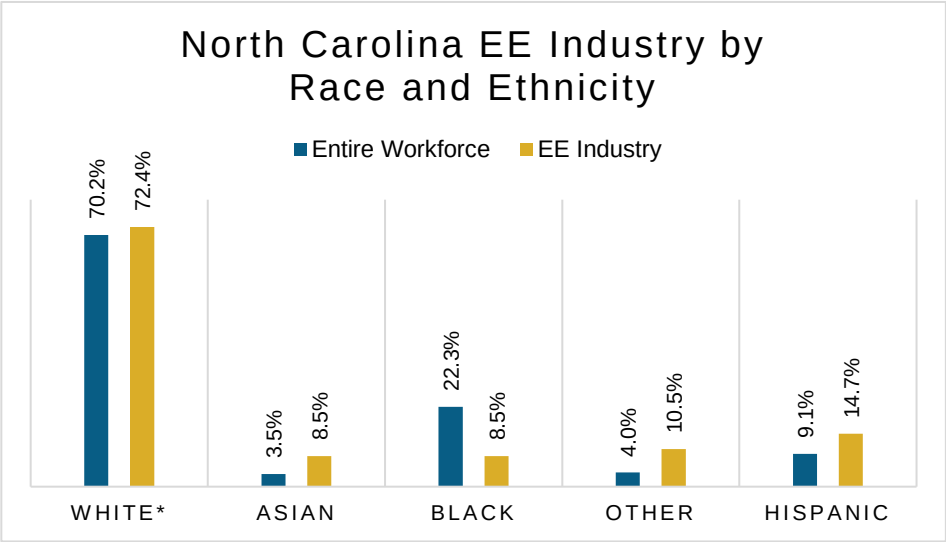
*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

10%
of North Carolina EE workers are **Veterans**

How is EE doing on diversity in North Carolina?

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 North Carolina 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.



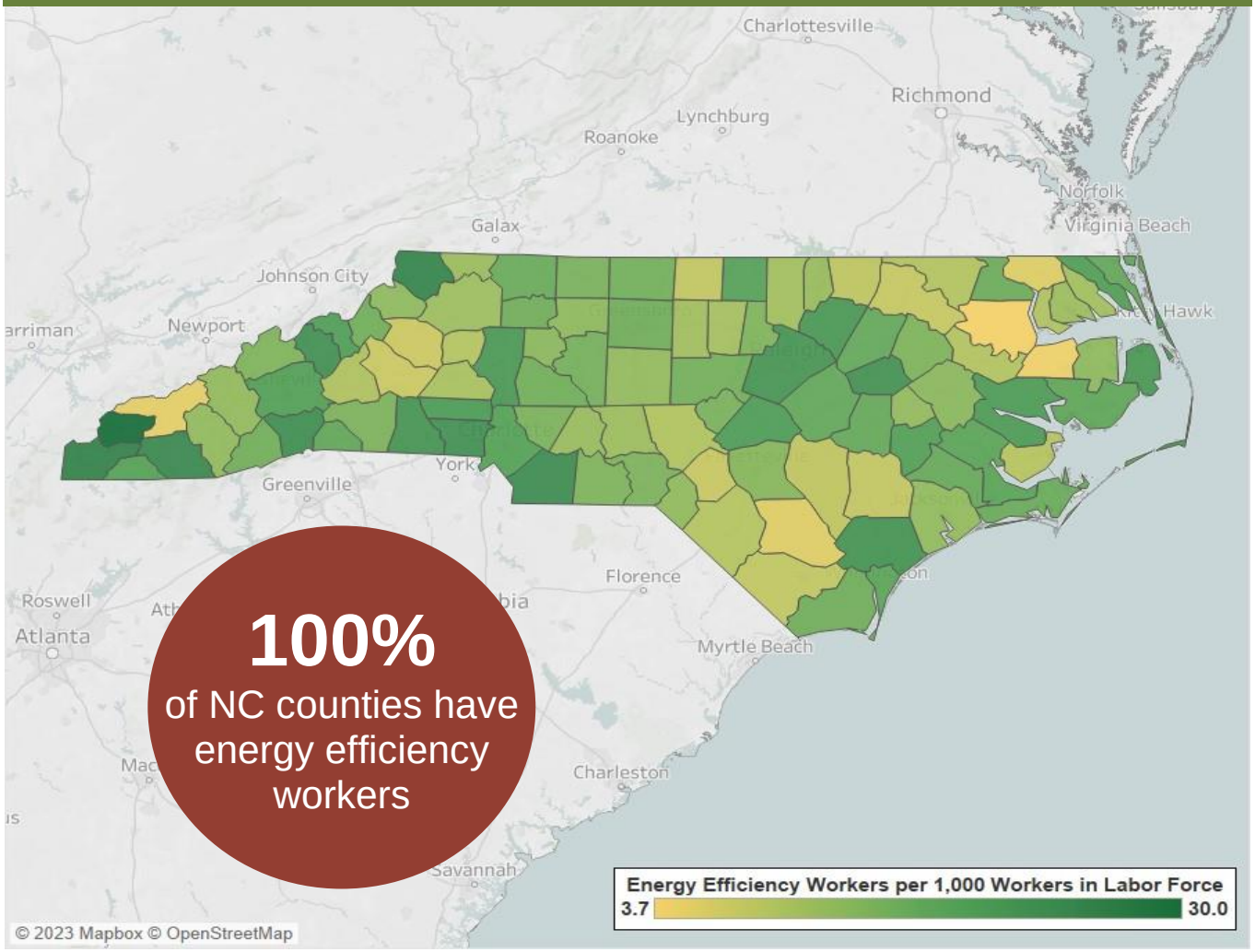
*Includes non-Hispanic and Hispanic whites.

Gender in the North Carolina 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



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	9,027	9	11,152	Asheville	3,853	Hickory-Lenoir-Morganton	1,430
2	9,130	10	7,327	Burlington	706	Jacksonville	663
3	5,495	11	3,980	Charlotte-Concord-Gastonia	22,035	Raleigh	14,740
4	7,733	12	444	Durham-Chapel Hill	4,520	Rocky Mount	890
5	8,565	13	1,197	Fayetteville	1,715	Virginia Beach-Norfolk-Newport News	121
6	4,655			Goldsboro	688	Wilmington	2,558
7	4,288			Greensboro-High Point	5,439	Winston-Salem	3,628
8	5,344			Greenville	1,059	Rural	14,294

State Senate

District	Jobs	District	Jobs	District	Jobs
1	2,168	18	333	35	1,716
2	1,613	19	1,469	36	3,047
3	887	20	2,030	37	7,597
4	1,475	21	175	38	176
5	1,727	22	1,958	39	636
6	912	23	1,027	40	<10
7	151	24	1,292	41	478
8	2,812	25	1,814	42	2,150
9	1,824	26	2,918	43	1,557
10	2,340	27	1,978	44	1,009
11	769	28	<10	45	1,245
12	2,033	29	1,225	46	1,378
13	865	30	1,272	47	1,585
14	4,148	31	2,369	48	2,436
15	2,515	32	<10	49	1,678
16	1,734	33	189	50	1,523
17	323	34	1,783		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	805	39	<10	77	447	115	411
2	1,111	40	406	78	369	116	204
3	983	41	18	79	346	117	<10
4	1,042	42	710	80	160	118	551
5	229	43	807	81	<10	119	575
6	1,139	44	<10	82	2,339	120	509
7	1,143	45	20	83	<10		
8	641	46	731	84	1,453		
9	517	47	113	85	1,254		
10	472	48	602	86	672		
11	2,673	49	<10	87	72		
12	<10	50	948	88	5,228		
13	957	51	652	89	891		
14	614	52	671	90	506		
15	90	53	101	91	21		
16	509	54	402	92	1,876		
17	876	55	1,589	93	579		
18	1,805	56	95	94	121		
19	558	57	1,992	95	<10		
20	<10	58	965	96	<10		
21	225	59	716	97	155		
22	1,844	60	1,208	98	499		
23	230	61	437	99	621		
24	<10	62	87	100	501		
25	167	63	395	101	<10		
26	1,075	64	<10	102	124		
27	332	65	306	103	<10		
28	211	66	29	104	<10		
29	2,281	67	515	105	<10		
30	1,613	68	385	106	<10		
31	107	69	367	107	<10		
32	173	70	670	108	1,182		
33	997	71	1,709	109	<10		
34	2,933	72	212	110	1,038		
35	690	73	1,522	111	75		
36	745	74	205	112	393		
37	29	75	200	113	1,512		
38	<10	76	1,337	114	2,689		

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