North Carolina

Energy Efficiency Jobs in America

80,817
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 and industrial buildings.
- **Design and construct** high-performance buildings such as those earning nationally recognized sustainability and environmental performance ratings.
- **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.

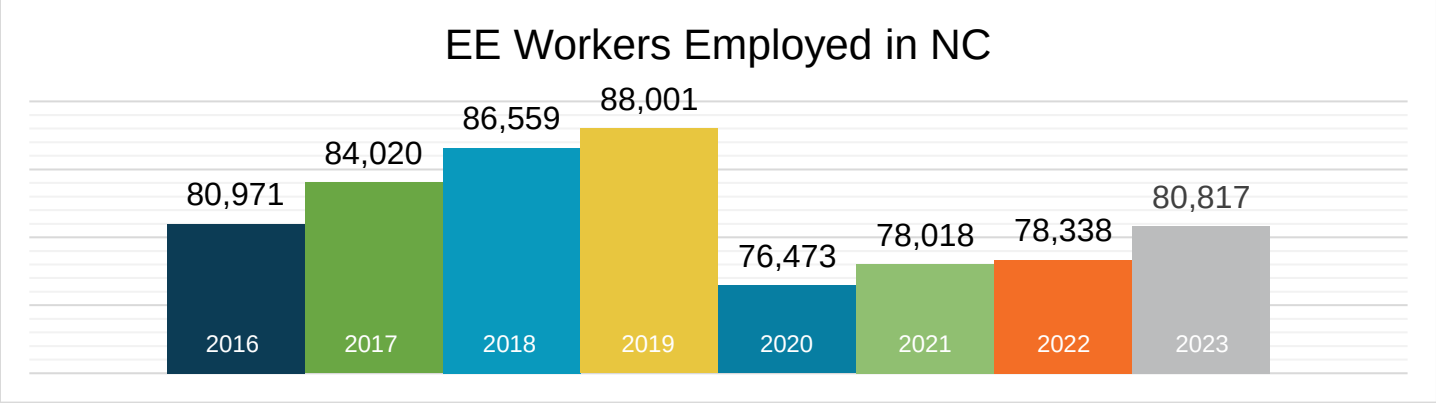
How does EE compare in North Carolina?

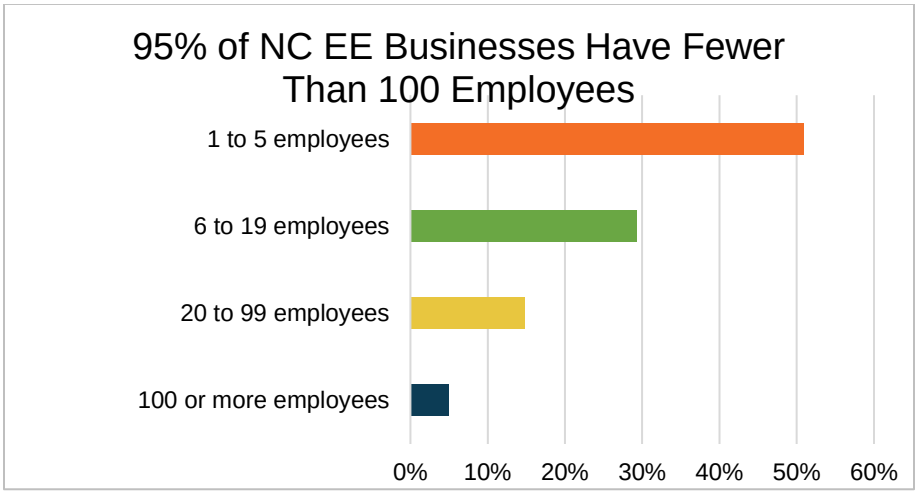
Energy efficiency is the largest energy sector in North Carolina.

TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
Nuclear (EPG & Fuels) = 1,806
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by:

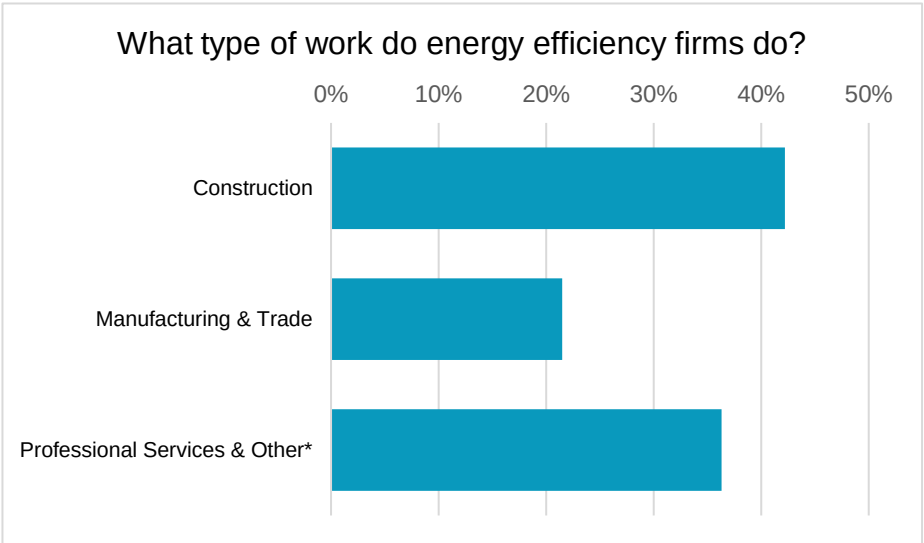
What does EE look like in North Carolina?



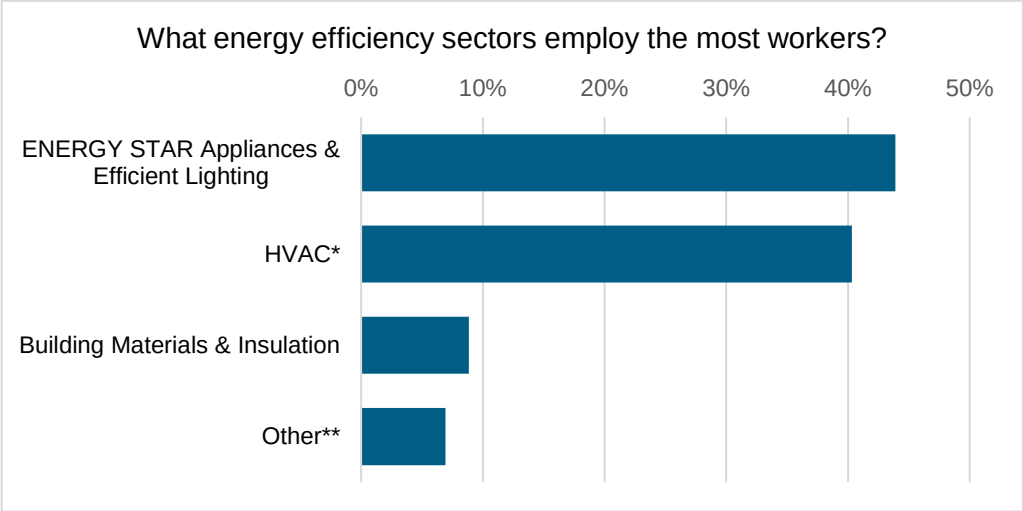


16,858
EE businesses in North Carolina

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.



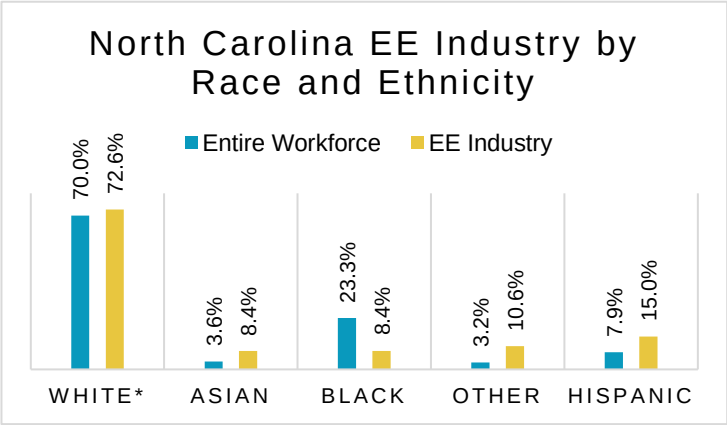
*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

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 North Carolina businesses.



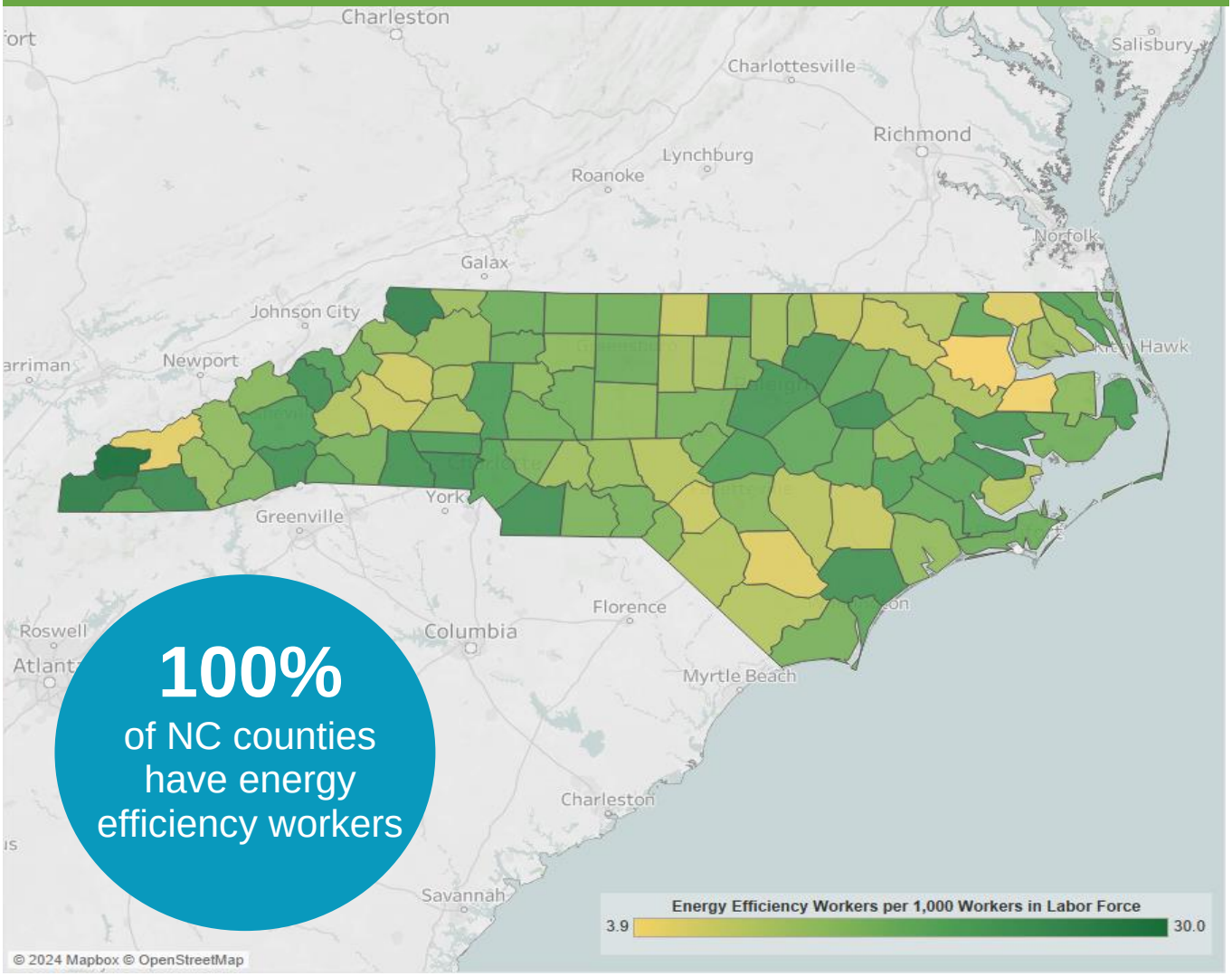
*Includes non-Hispanic and Hispanic whites.

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 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/media/330956.

Congressional

District	Jobs	District	Jobs
1	9,315	9	11,503
2	9,417	10	7,558
3	5,667	11	4,107
4	7,977	12	458
5	8,840	13	1,235
6	4,802		
7	4,425		
8	5,513		

Metropolitan Areas

Area	Jobs	Area	Jobs
Asheville	3,960	Hickory-Lenoir-Morganton	1,472
Burlington	726	Jacksonville	682
Charlotte-Concord-Gastonia	22,682	Raleigh	15,273
Durham-Chapel Hill	4,642	Rocky Mount	925
Fayetteville	1,789	Virginia Beach-Norfolk-Newport News	124
Goldsboro	708	Wilmington	2,630
Greensboro-High Point	5,599	Winston-Salem	3,743
Greenville	1,090	Rural	14,772

State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	2,234	14	4,281	27	2,039	40	<10
2	1,662	15	2,592	28	<10	41	492
3	918	16	1,789	29	1,263	42	2,218
4	1,520	17	334	30	1,311	43	1,609
5	1,780	18	344	31	2,453	44	1,040
6	940	19	1,515	32	<10	45	1,289
7	155	20	2,093	33	195	46	1,420
8	2,904	21	181	34	1,838	47	1,633
9	1,881	22	2,018	35	1,769	48	2,513
10	2,414	23	1,062	36	3,142	49	1,730
11	792	24	1,331	37	7,830	50	1,570
12	2,098	25	1,874	38	182		
13	891	26	3,007	39	656		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	827	31	110	61	449	91	21
2	1,142	32	178	62	89	92	1,928
3	1,011	33	1,050	63	406	93	595
4	1,071	34	3,021	64	<10	94	124
5	239	35	709	65	314	95	<10
6	1,171	36	767	66	30	96	<10
7	1,174	37	30	67	530	97	159
8	659	38	<10	68	395	98	513
9	531	39	<10	69	378	99	649
10	485	40	417	70	688	100	515
11	2,748	41	18	71	1,757	101	<10
12	<10	42	730	72	217	102	128
13	984	43	831	73	1,564	103	<10
14	631	44	<10	74	211	104	<10
15	93	45	21	75	217	105	<10
16	523	46	752	76	1,385	106	<10
17	905	47	116	77	460	107	<10
18	1,856	48	624	78	379	108	1,220
19	575	49	<10	79	356	109	<10
20	<10	50	974	80	165	110	1,067
21	231	51	671	81	<10	111	77
22	1,895	52	715	82	2,406	112	403
23	237	53	103	83	<10	113	1,556
24	<10	54	413	84	1,493	114	2,764
25	171	55	1,642	85	1,288	115	423
26	1,107	56	97	86	696	116	210
27	342	57	2,047	87	74	117	<10
28	217	58	993	88	5,373	118	567
29	2,345	59	735	89	918	119	591
30	1,748	60	1,243	90	520	120	523

The Building Performance Association (BPA) is a 501(c) 6 nonprofit industry association that serves as the hub for businesses, nonprofits, and government agencies working to make America's homes more comfortable, healthy, and energy efficient. Our mission is to transform the market for the home performance industry through advocacy, education, professional development, and networking. Visit www.building-performance.org.

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.

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: Unless otherwise stated, all data are from the U.S. Energy and Employment Report, August 2024, 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 BPA analyses please email: communications@building-performance.org