

North Carolina

Energy Efficiency Jobs in America

83,490
Total Jobs

What are EE jobs?

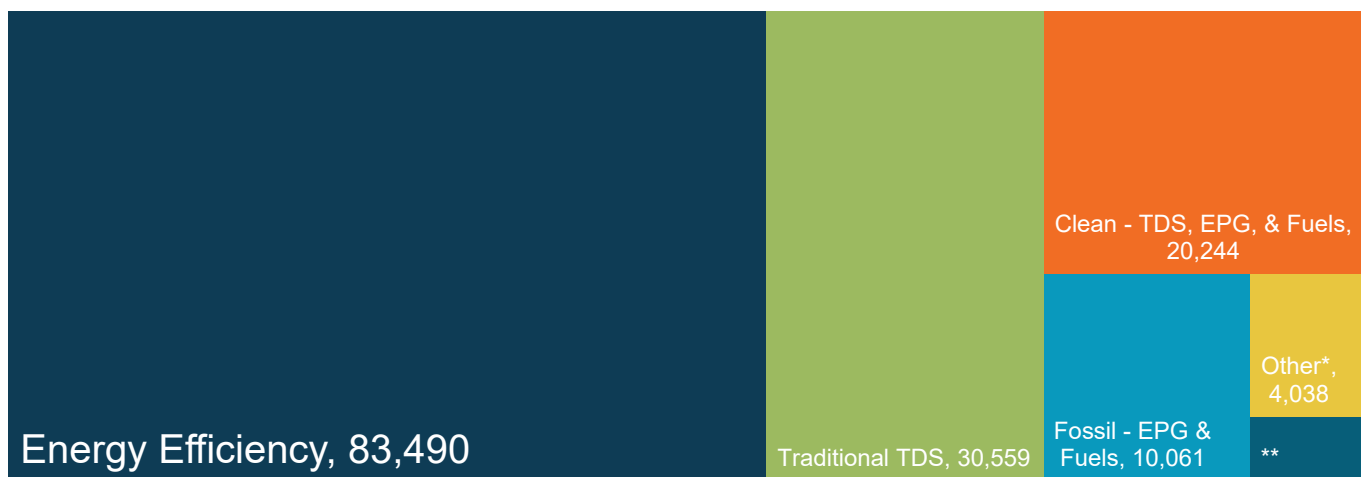
Jobs that reduce energy use by improving efficiency in appliances, buildings, data systems, financing, new technologies, and more.

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, as well as 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 to other energy sectors in North Carolina?

Energy efficiency is the largest energy sector in North Carolina.



TDS = Transmission, Distribution, & Storage

EPG = Electric Power Generation

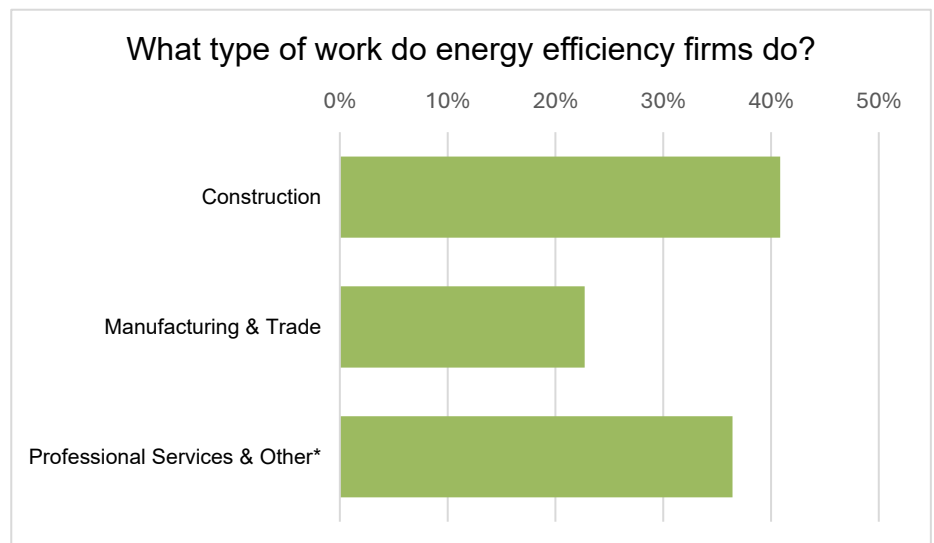
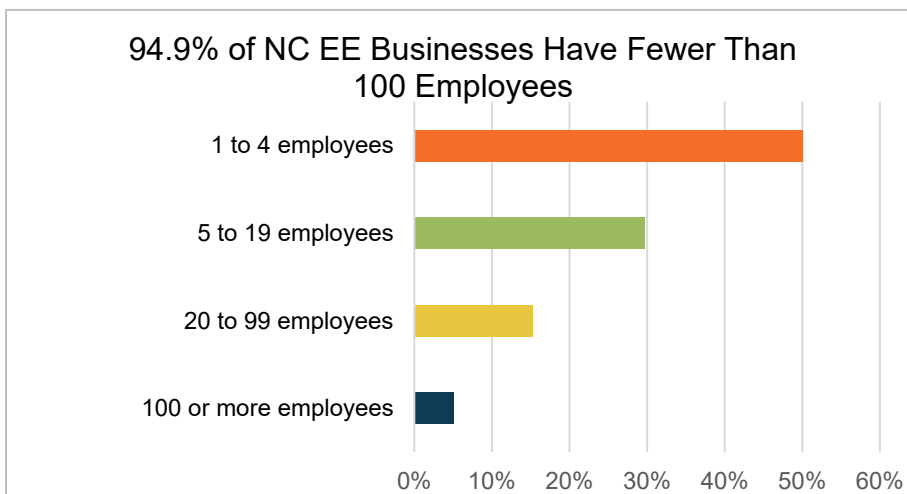
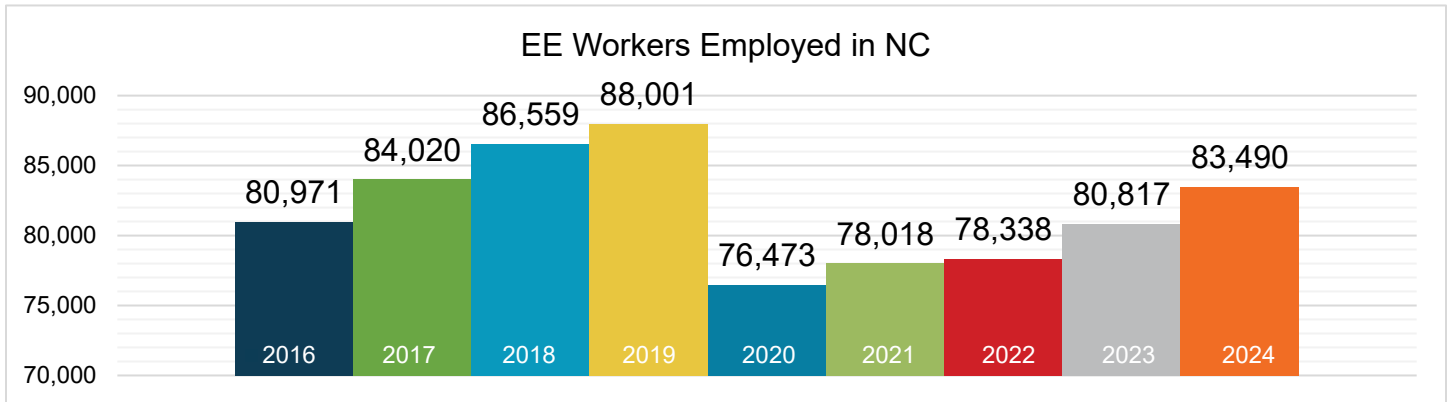
**Nuclear - EPG & Fuels = 1,821

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

Presented by:

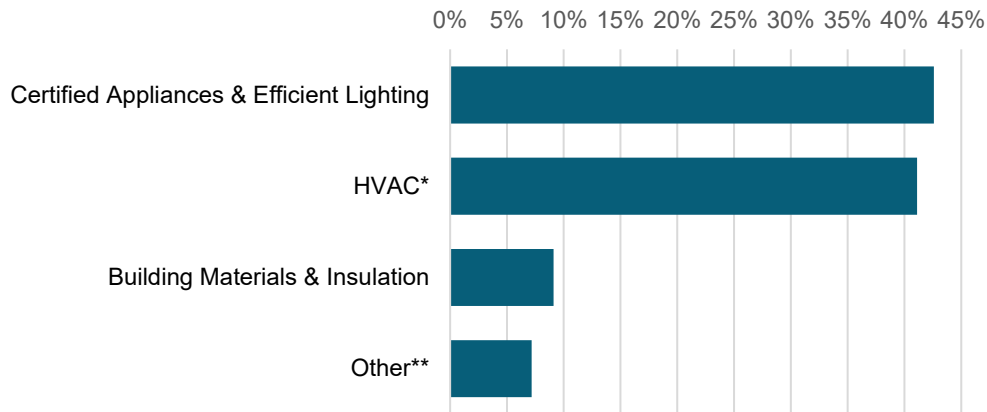


What does EE look like in North Carolina?



*Professional services include finance, accounting, architecture, engineering, research and development, and more. The "other" category includes roles in maintenance, business operations, and nonprofit organizations.

What energy efficiency sectors employ the most workers?



Certified Appliances = ENERGY STAR-certified appliances

*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating and cooling

**Other includes energy audits, building certifications, and software services

10%
of North Carolina
EE workers are
veterans

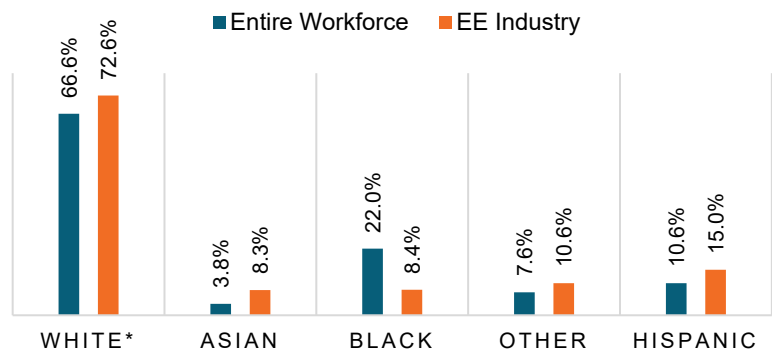


How representative is the EE workforce in North Carolina?

Demographic data is critical to measure progress towards a more representative EE workforce. Tracking this data helps show how well North Carolina's EE workforce reflects the communities it serves and where gaps remain.

Expanded training programs in North Carolina can help ensure energy efficiency careers are accessible to all.

North Carolina EE Industry by Race and Ethnicity



*Includes non-Hispanic and Hispanic whites.

Gender in the North Carolina EE Workforce

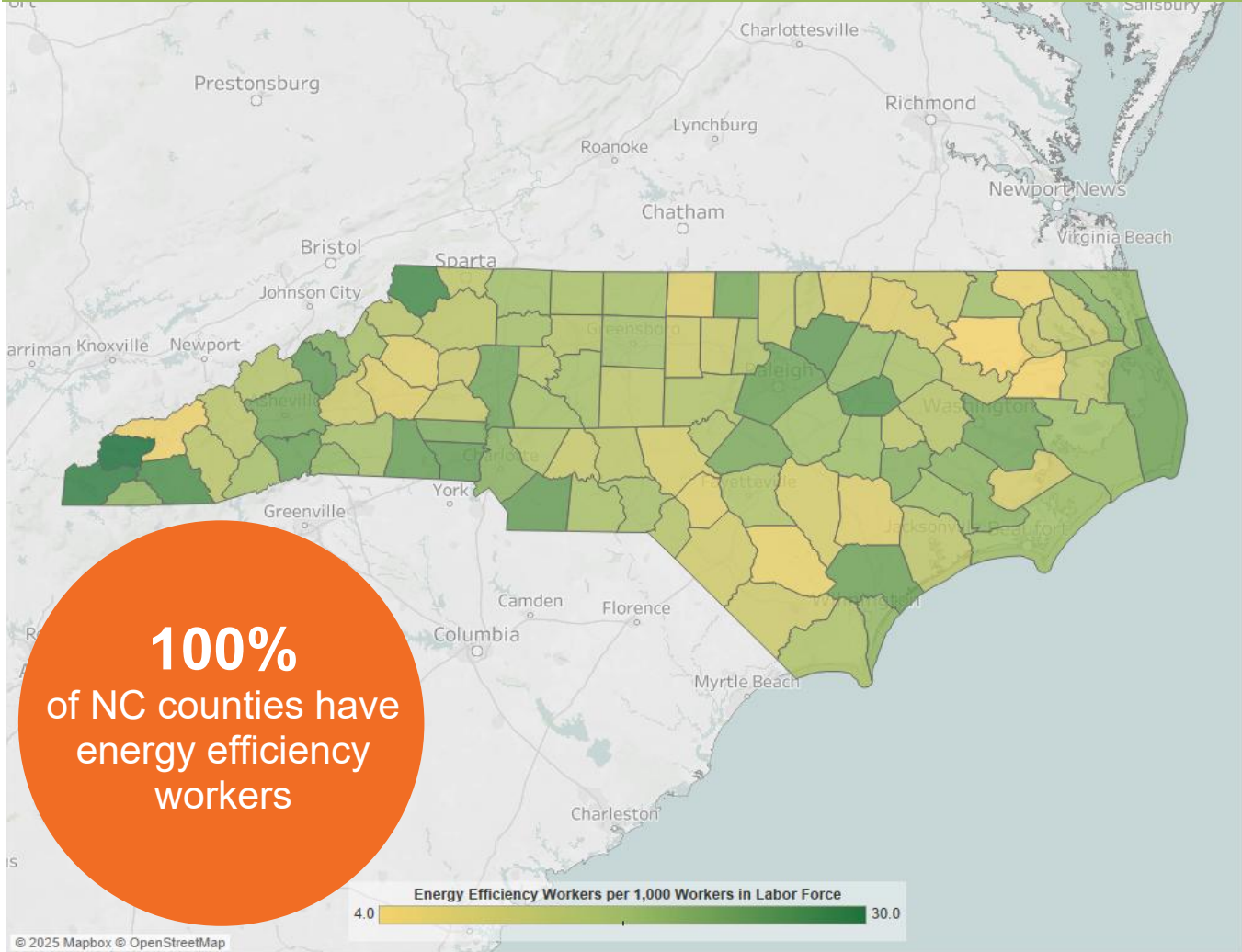


Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Nonbinary gender data is missing from this document due to this limitation.



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/348937>.

Congressional				Metropolitan Areas			
District	Jobs	District	Jobs	Area	Jobs	Area	Jobs
1	4,385	9	3,288	Asheville	4,095	Hickory-Lenoir-Morganton	1,520
2	10,663	10	5,515	Burlington	749	Jacksonville	704
3	4,288	11	5,861	Charlotte-Concord-Gastonia	23,408	Raleigh	15,850
4	7,902	12	10,280	Durham-Chapel Hill	4,781	Rocky Mount	958
5	4,944	13	3,872	Fayetteville	1,853	Virginia Beach-Norfolk-Newport News	128
6	5,127	14	7,254	Goldsboro	731	Wilmington	2,711
7	4,770			Greensboro-High Point	5,773	Winston-Salem	3,865
8	5,342			Greenville	1,124	Rural	15,242



State Senate										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	1,017		14	2,578		27	1,855		40	2,163
2	788		15	2,389		28	2,511		41	3,967
3	1,764		16	3,188		29	996		42	3,702
4	1,698		17	2,332		30	968		43	1,818
5	1,408		18	1,508		31	1,027		44	1,538
6	727		19	1,289		32	1,824		45	1,229
7	2,223		20	1,567		33	1,144		46	777
8	1,033		21	926		34	1,362		47	1,027
9	784		22	2,355		35	1,640		48	1,423
10	1,103		23	1,040		36	1,017		49	2,530
11	1,256		24	669		37	2,486		50	1,305
12	1,020		25	952		38	2,685			
13	3,186	26	1,021	39	2,673					

State House of Representatives										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	338		31	713		61	485		91	251
2	973		32	321		62	942		92	1,065
3	631		33	1,476		63	450		93	593
4	337		34	724		64	323		94	299
5	375		35	1,052		65	416		95	885
6	400		36	1,209		66	1,224		96	626
7	440		37	1,460		67	401		97	597
8	458		38	743		68	484		98	1,581
9	703		39	905		69	951		99	1,390
10	585		40	1,705		70	322		100	1,076
11	1,052		41	703		71	744		101	611
12	691		42	444		72	819		102	1,416
13	607		43	390		73	381		103	1,243
14	209		44	311		74	379		104	1,031
15	434		45	674		75	659		105	1,424
16	418		46	238		76	668		106	1,115
17	400		47	338		77	430		107	1,628
18	1,125		48	245		78	379		108	501
19	714		49	1,015		79	717		109	898
20	865		50	256		80	286		110	853
21	1,666		51	525		81	486		111	586
22	253		52	367		82	737		112	844
23	340		53	198		83	369		113	458
24	890		54	325		84	831		114	527
25	735		55	456		85	494		115	868
26	528		56	662		86	243		116	1,507
27	208		57	960		87	201		117	886
28	575		58	1,066		88	1,432		118	301
29	1,205		59	632		89	508		119	411
30	864	60	887	90	547	120	693			





The Building Performance Association (BPA) is a nonprofit industry association that serves as the hub for businesses, nonprofits, and government agencies working to make America's homes more energy-efficient, comfortable, healthy, and safe. Visit www.building-performance.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 August 2025 U.S. Energy and Employment Report, 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.

