

North Dakota

Energy Efficiency Jobs in America

5,110

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 Dakota?

Energy Efficiency is the third largest energy sector in North Dakota.



TDS = Transmission, Distribution & Storage

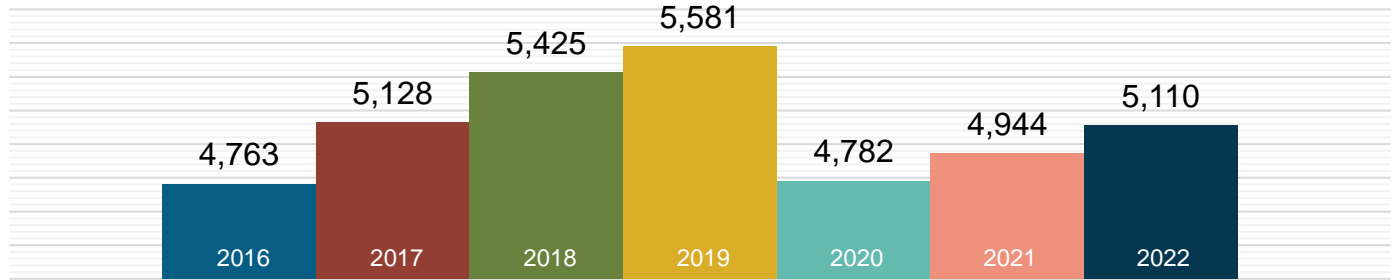
EPG = Electric Power Generation

Nuclear (EPG & Fuels) = <10

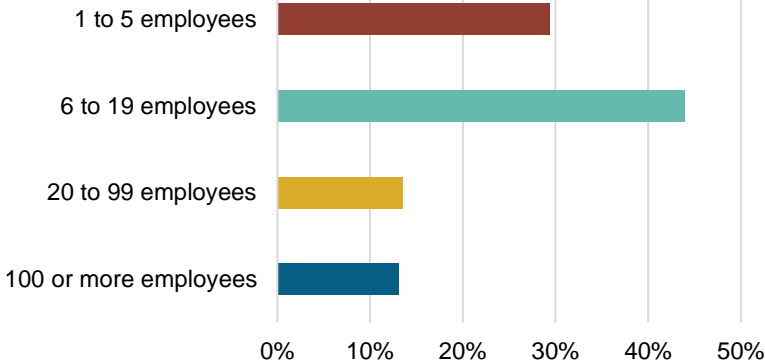
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

What does EE look like in North Dakota?

EE Workers Employed in ND



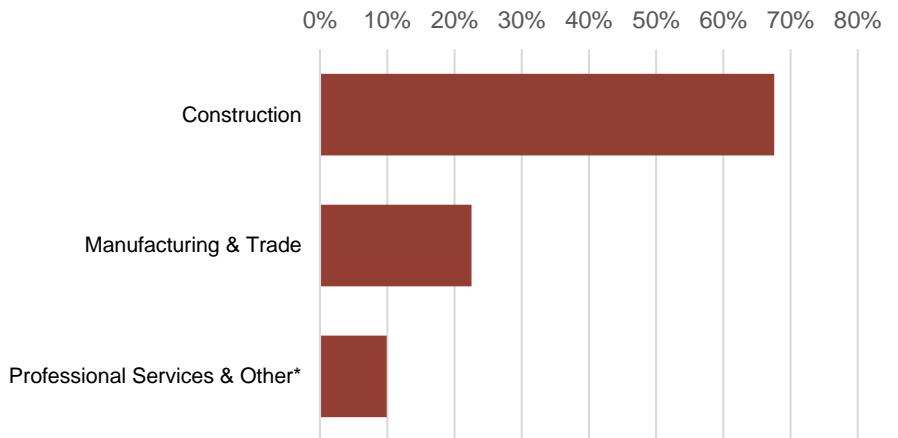
86.9% of ND EE Businesses Have Fewer Than 100 Employees



EE construction workers comprise **14%** of North Dakota's construction workforce

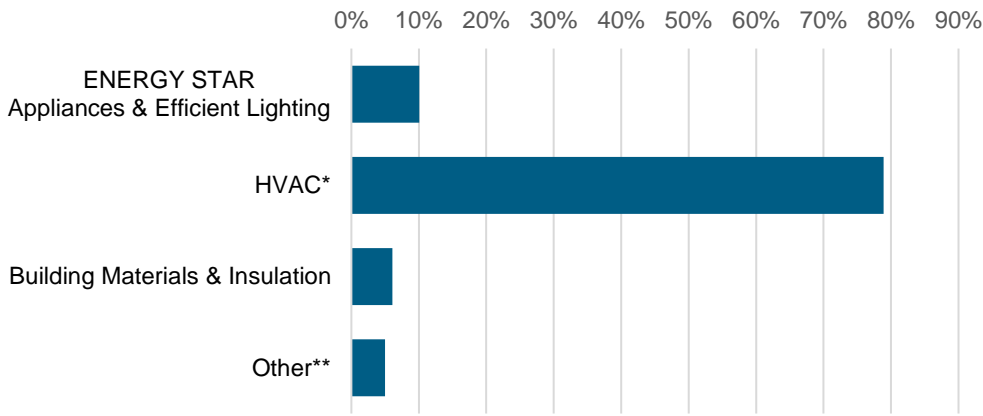


What type of work do energy efficiency firms do?



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

What energy efficiency sectors employ the most workers?



8%
of North Dakota
EE workers are
Veterans

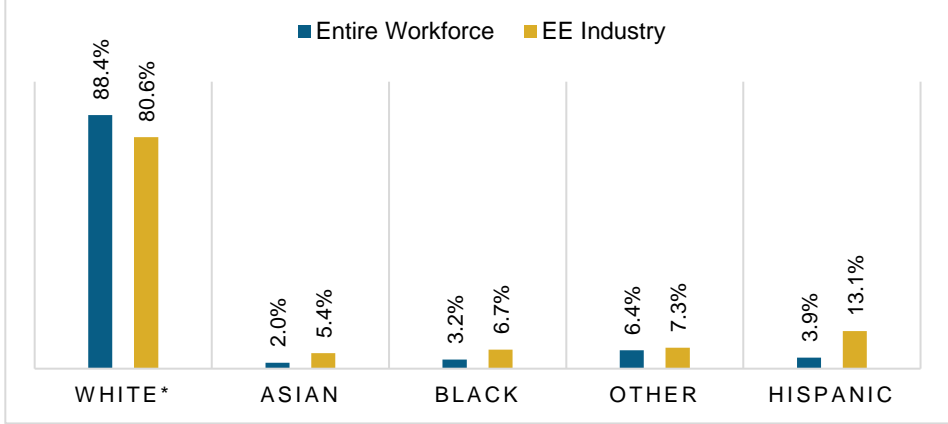
*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

How is EE doing on diversity in North Dakota?

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 Dakota 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.

North Dakota EE Industry by Race and Ethnicity



*Includes non-Hispanic and Hispanic whites.

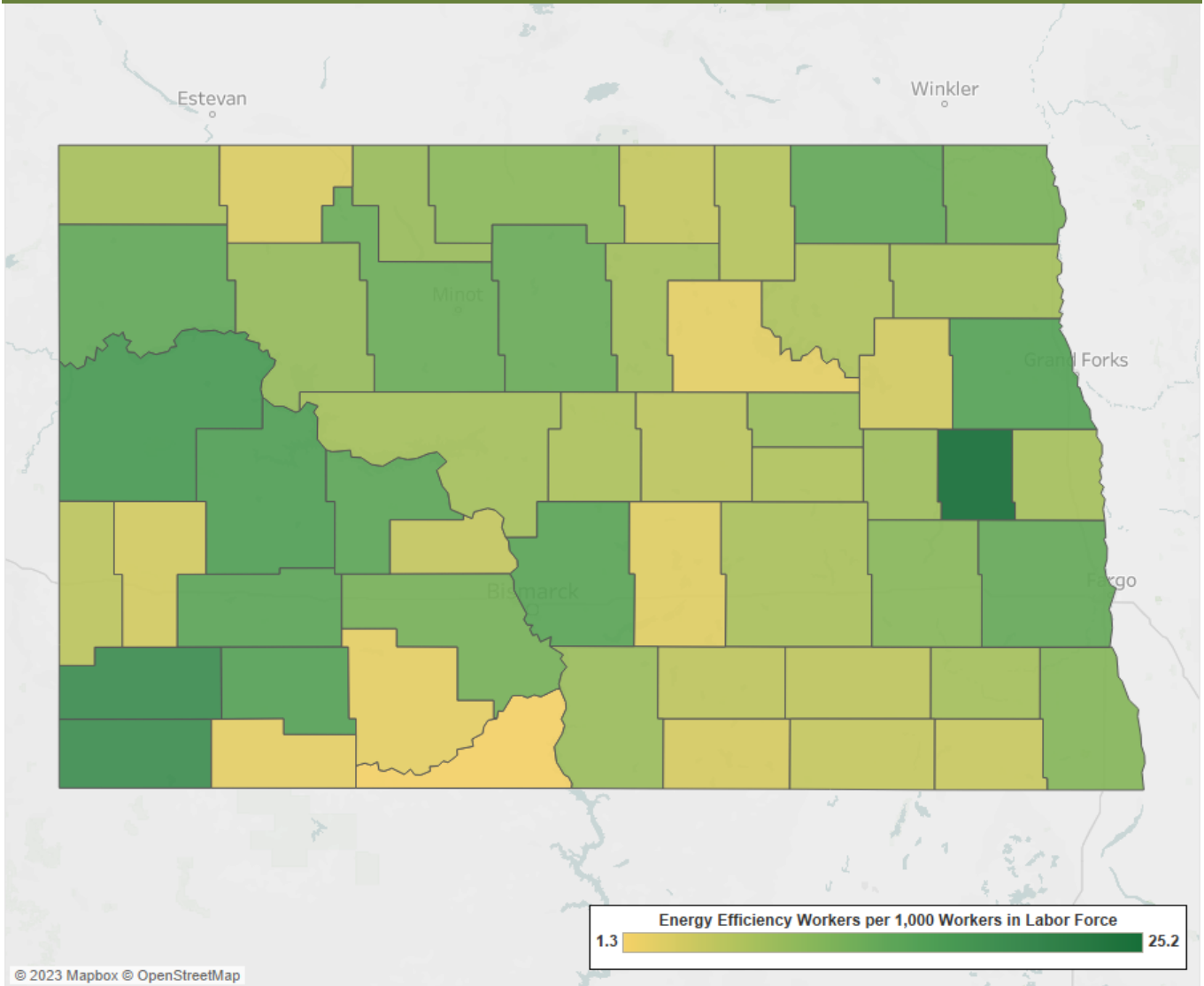
Gender in the North Dakota EE Workforce



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



100%
of ND counties have
energy efficiency
workers

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	5,110	Bismarck	948
		Fargo	1,615
		Grand Forks	572
		Rural	1,975

State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	347	13	313	25	114	37	<10
2	128	14	140	26	108	38	<10
3	410	15	88	27	<10	39	237
4	135	16	148	28	60	40	<10
5	<10	17	321	29	22	41	<10
6	110	18	<10	30	<10	42	<10
7	548	19	81	31	227	43	<10
8	34	20	55	32	<10	44	<10
9	29	21	324	33	25	45	<10
10	101	22	104	34	<10	46	<10
11	343	23	24	35	<10	47	<10
12	93	24	133	36	284		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	343	25	114	49	<10	73	<10
2	129	26	108	50	<10	74	<10
3	411	27	<10	51	<10	75	<10
4	135	28	60	52	<10	76	<10
5	<10	29	22	53	<10	77	<10
6	110	30	<10	54	<10	78	<10
7	548	31	227	55	<10	79	<10
8	34	32	<10	56	<10	80	<10
9	29	33	25	57	<10	81	<10
10	101	34	<10	58	<10	82	<10
11	343	35	<10	59	<10	83	<10
12	93	36	284	60	<10	84	<10
13	313	37	<10	61	<10	85	<10
14	141	38	<10	62	<10	86	<10
15	88	39	237	63	<10	87	<10
16	148	40	<10	64	<10	88	<10
17	321	41	<10	65	<10	89	<10
18	<10	42	<10	66	<10	90	<10
19	81	43	<10	67	<10	91	<10
20	55	44	<10	68	<10	92	<10
21	324	45	<10	69	<10	93	<10
22	104	46	<10	70	<10	94	<10
23	24	47	<10	71	<10		
24	134	48	<10	72	<10		



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