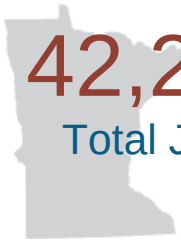
Minnesota

Energy Efficiency Jobs in America

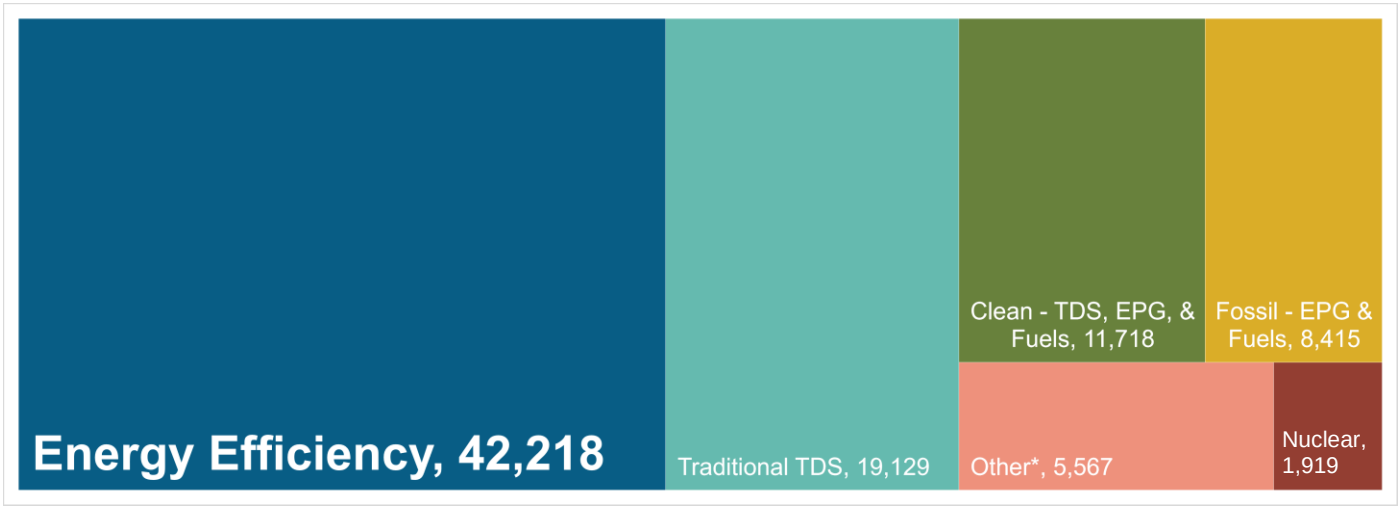


Energy efficiency (EE) workers are crucial to America's workforce. EE jobs are everywhere – in rural, urban, and suburban communities.

Investing in EE is a highly cost-effective way to improve the reliability of the electric grid, reduce harmful emissions, and make other renewable energy resources, such as solar and wind, more valuable. Efficiency measures also lower household energy bills while creating high-quality, local jobs that cannot be outsourced.

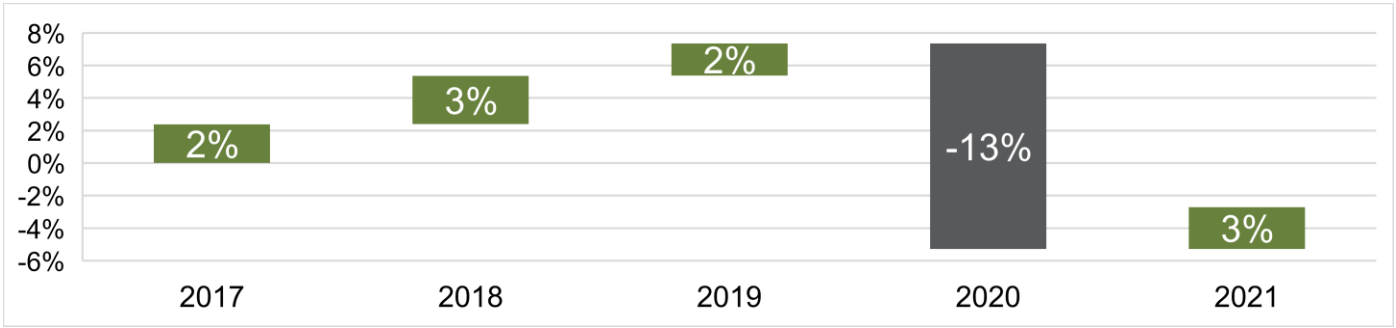
How do Minnesota's energy sectors compare?

*Energy Efficiency is the **largest** energy sector in Minnesota*



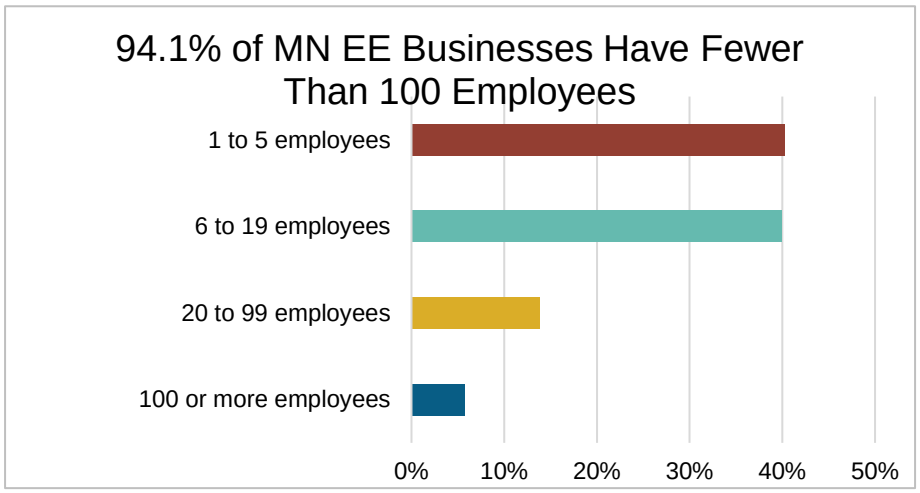
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation
Nuclear = includes EPG & Fuels
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

How is the EE industry growing in Minnesota?



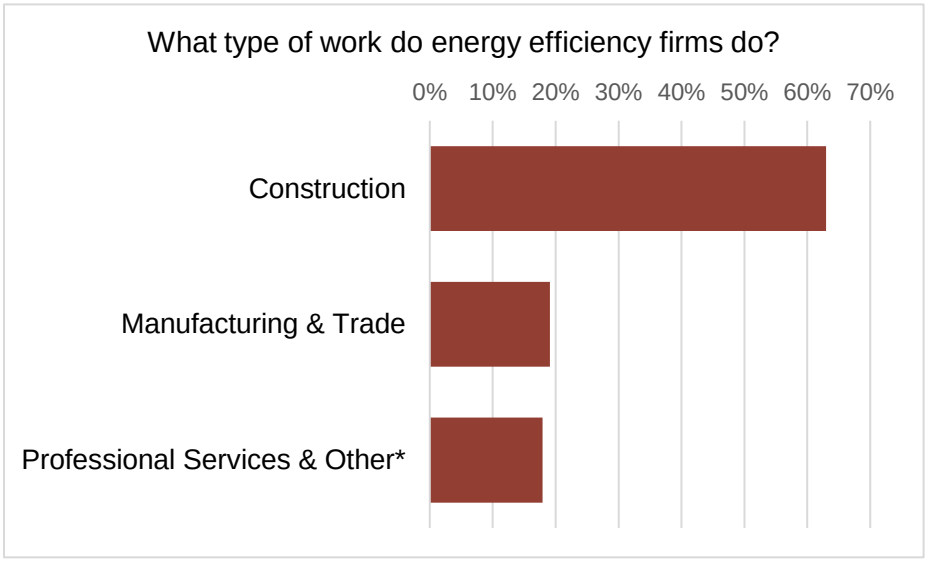
Prior to 2020, the EE sector was growing steadily each year, but suffered heavy job losses in the COVID-19 pandemic. The EE industry has made a strong recovery, but job gains have been slower than in the U.S. workforce overall. As we invest in EE, a focus on workforce development is vital to ensure a strong efficiency industry for years to come.

What does EE look like in Minnesota?

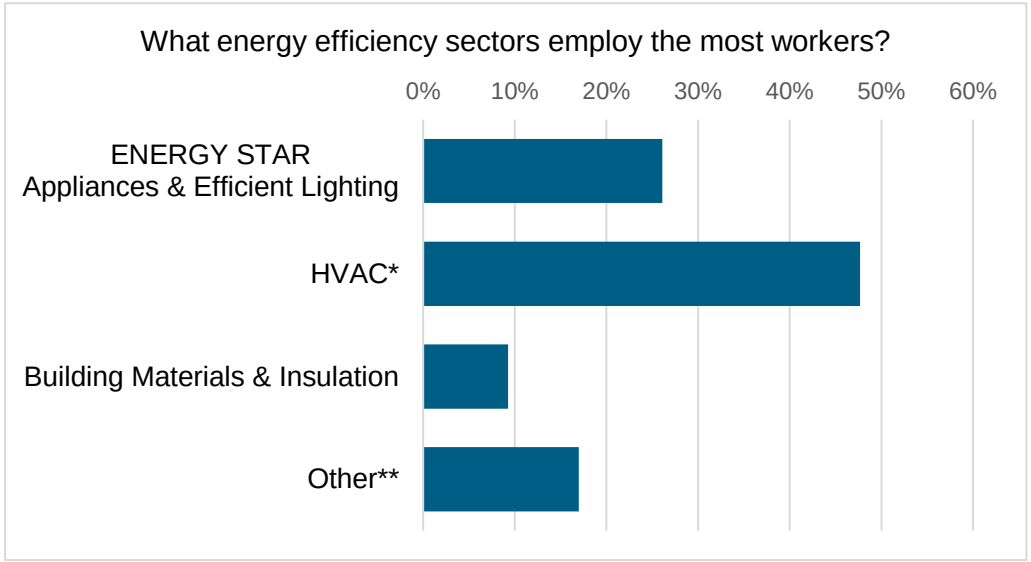


6,764
EE businesses in Minnesota

EE construction workers comprise **21%** of Minnesota's construction workforce



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



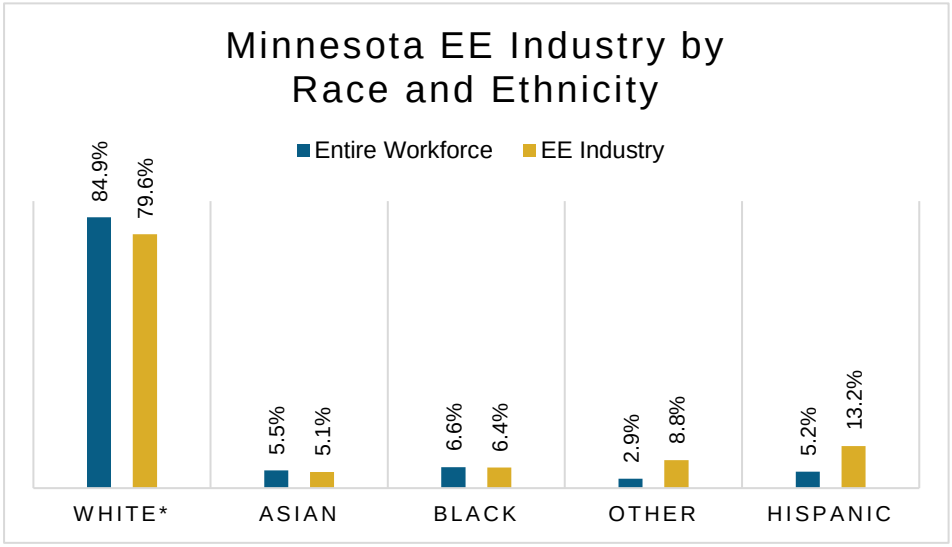
8%
of Minnesota EE workers are **Veterans**

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

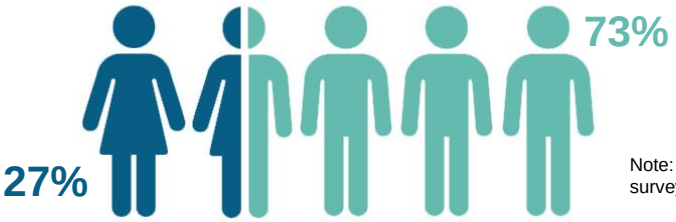
How is EE doing on diversity in Minnesota?

Demographic data is critical to measure progress in the EE industry. In striving for more diversity in EE jobs, we can create a stronger industry 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 Minnesota 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.



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.

Minnesota's EE Potential

Decades of work ready for Minnesota's growing energy efficiency workforce.

Weatherization Assistance Program:

1,227* units weatherized in 2018, out of **~200,000** total low-income households

1,796,412
Minnesota homes are due for energy tune-ups

(Non low-income families whose residences are 20+ years old)

Potential to **reduce** residential electricity consumption by

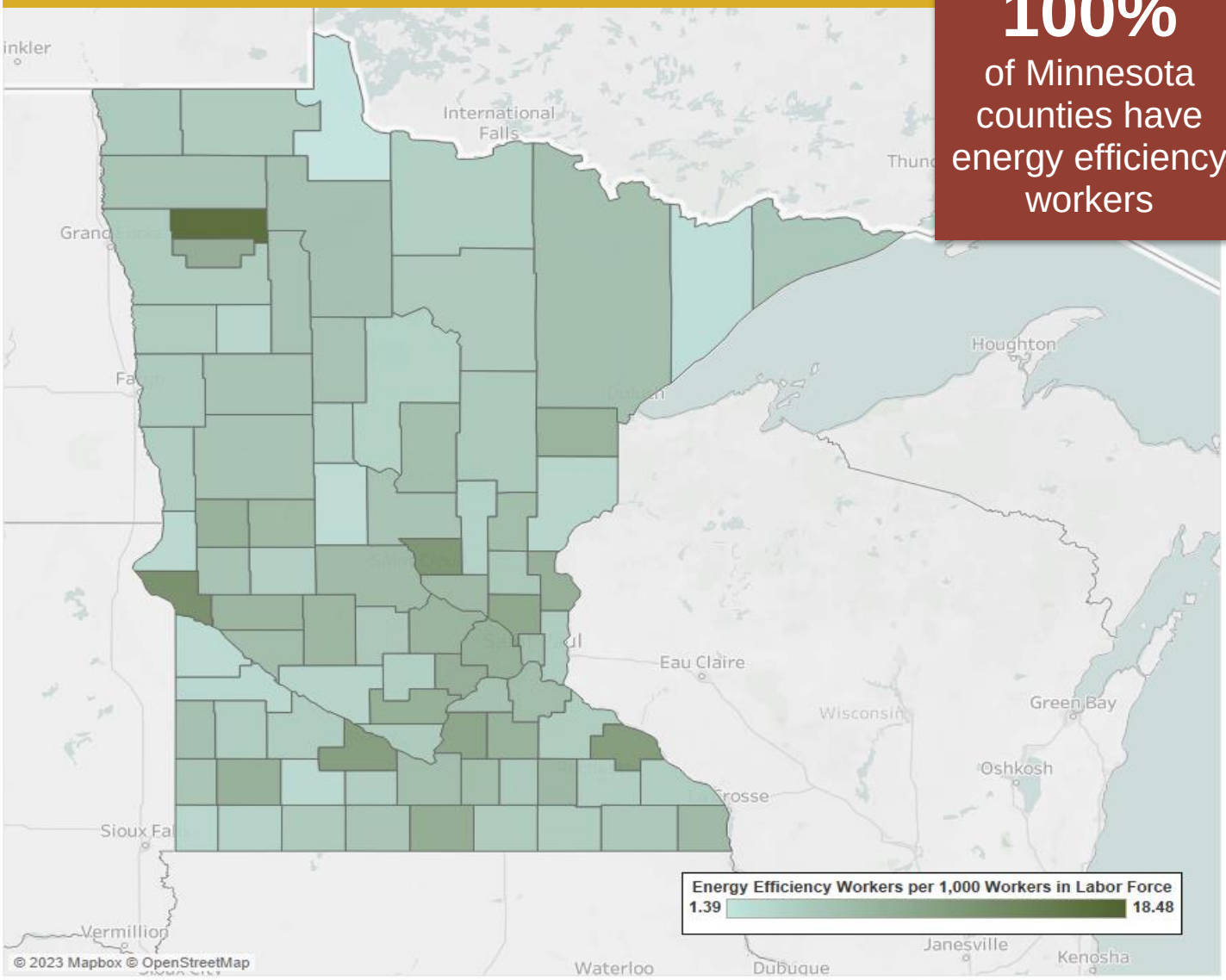
25%

*National Association for State community Services Programs (NASCSP) Weatherization Assistance Program Annual Funding Survey
Source: E4TheFuture/BW Research retrofit analysis, July 2021, U.S. Census Bureau QuickFacts and State and Local Planning for Energy (SLOPE) Platform

Energy Efficiency Jobs are Everywhere

EE Jobs by County

100%
of Minnesota counties have energy efficiency workers



Metropolitan Areas				
	Area	**Jobs**	**Area**	**Jobs**
	Duluth	**1,348**	**St. Cloud**	**2,227**
	Fargo	**375**	**Rural**	**10,169**
	Grand Forks	**197**		
	La Crosse	**193**		
	Mankato-North Mankato	**655**		
	Minneapolis-St. Paul-Bloomington	**25,787**		
	Rochester	**1,267**		

Jobs by County							
County	Jobs	County	Jobs	County	Jobs	County	Jobs
Aitkin County	46	Fillmore County	69	Marshall County	30	Rock County	24
Anoka County	2,658	Freeborn County	116	Martin County	99	Roseau County	80
Becker County	186	Goodhue County	201	Meeker County	82	St. Louis County	1,229
Beltrami County	263	Grant County	34	Mille Lacs County	75	Scott County	762
Benton County	450	Hennepin County	15,624	Morrison County	131	Sherburne County	407
Big Stone County	46	Houston County	75	Mower County	157	Sibley County	67
Blue Earth County	516	Hubbard County	81	Murray County	52	Stearns County	1,257
Brown County	304	Isanti County	127	Nicollet County	149	Steele County	199
Carlton County	223	Itasca County	160	Nobles County	77	Stevens County	69
Carver County	747	Jackson County	50	Norman County	16	Swift County	60
Cass County	93	Kanabec County	58	Olmsted County	937	Todd County	36
Chippewa County	74	Kandiyohi County	360	Otter Tail County	286	Traverse County	<10
Chisago County	293	Kittson County	15	Pennington County	382	Wabasha County	159
Clay County	197	Koochiching County	40	Pine County	55	Wadena County	50
Clearwater County	33	Lac qui Parle County	13	Pipestone County	52	Waseca County	80
Cook County	30	Lake County	17	Polk County	113	Washington County	878
Cottonwood County	38	Lake of the Woods County	<10	Pope County	39	Watonwan County	41
Crow Wing County	427	Le Sueur County	177	Ramsey County	4,159	Wilkin County	16
Dakota County	2,629	Lincoln County	21	Red Lake County	19	Winona County	214
Dodge County	91	Lyon County	133	Redwood County	59	Wright County	759
Douglas County	301	McLeod County	143	Renville County	40	Yellow Medicine County	24
Faribault County	87	Mahnomen County	12	Rice County	430	N/A	1,102

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: Unless otherwise stated, all data are from the U.S. Energy and Employment Report, June 2022, by the U.S. Department of Energy (see Appendix C 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.