

Washington

Energy Efficiency Jobs in America

June 2021*

56,853

Dec 2020

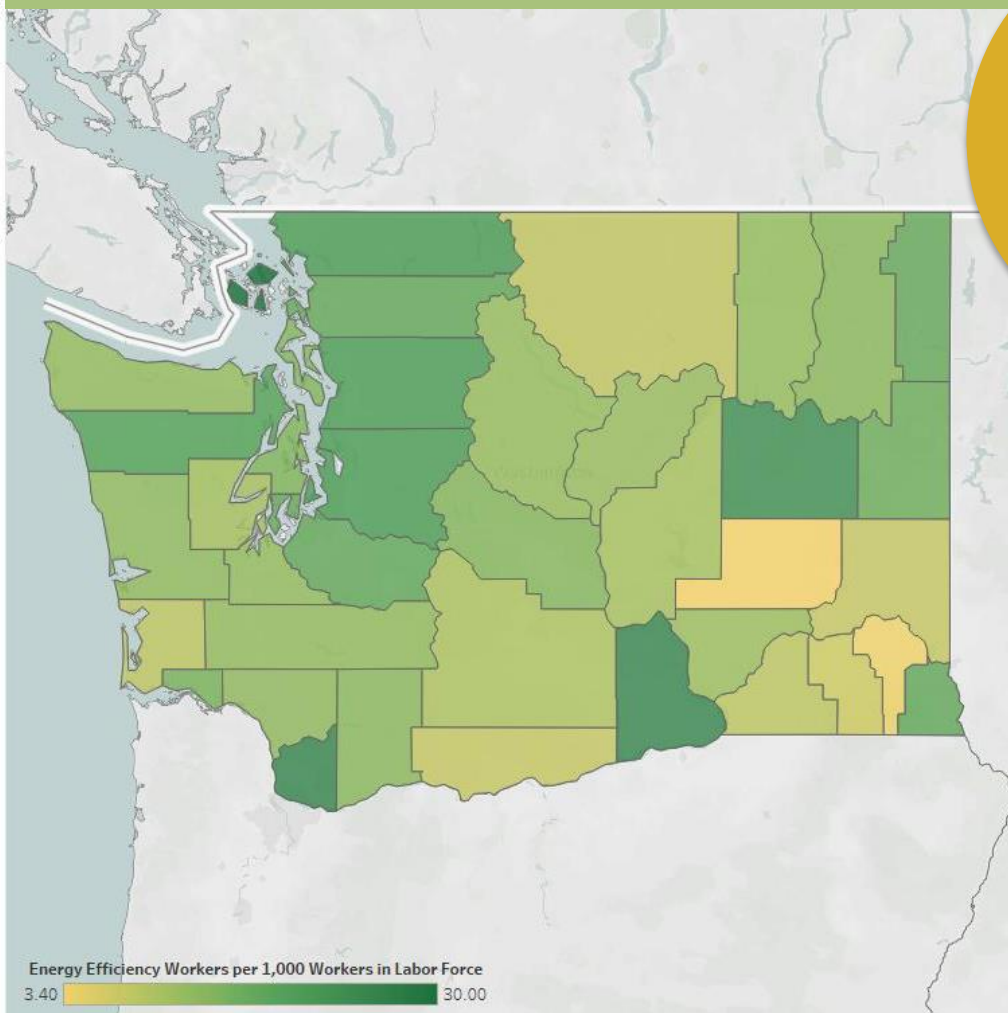
56,721

Energy efficiency (EE) workers are a crucial part of America's workforce. EE jobs are everywhere – in rural, urban, and suburban communities. In Washington, there are EE jobs in every county.

Investments in EE are the best possible energy investment. Energy efficiency measures are a highly cost-effective way to improve the reliability of the electric grid, reduce emissions, and make other renewable energy resources, such as solar and wind, more valuable. Efficiency also saves households money while creating high-quality, local jobs that cannot be outsourced.

Energy Efficiency Jobs are Everywhere

EE Jobs by County



100%
of Washington
counties have
energy efficiency
workers

~30,300
new EE construction
jobs to retrofit
Washington homes by
2030



Number of full-time workers required for eight years 2022-2030 to improve 80% of WA residences for a clean energy future.

Source: E4TheFuture/BW Research retrofit analysis, July 2021

*Source: E4TheFuture/BW Research job analysis, July 2021

Presented by:



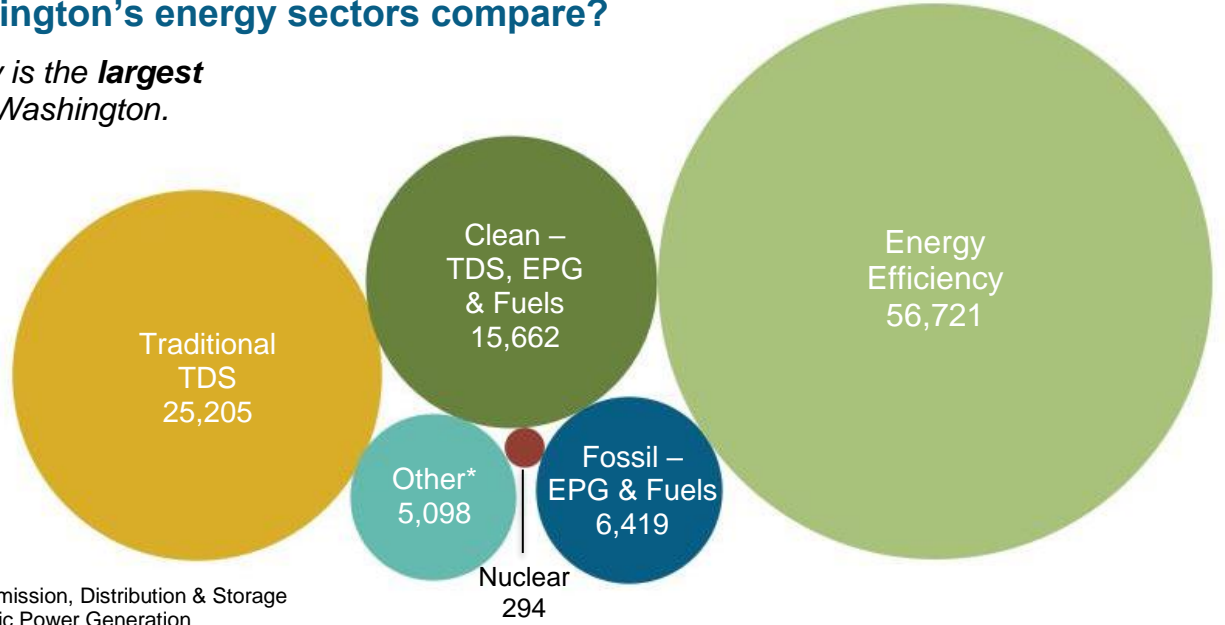
Key EE Statistics for Washington

What are energy efficiency (EE) jobs?

Jobs that deliver goods and services that lower energy use by improving technologies, appliances, buildings, and energy systems.

How do Washington's energy sectors compare?

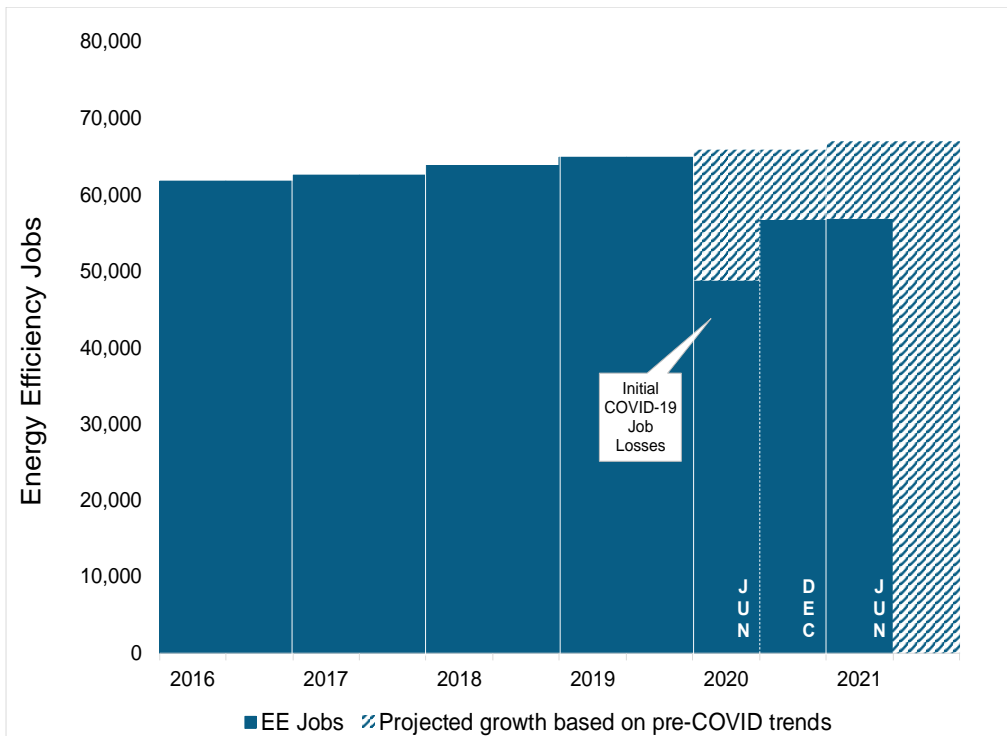
Energy Efficiency is the **largest** energy sector in Washington.



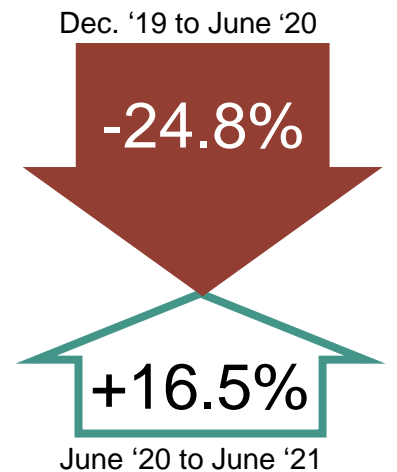
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?



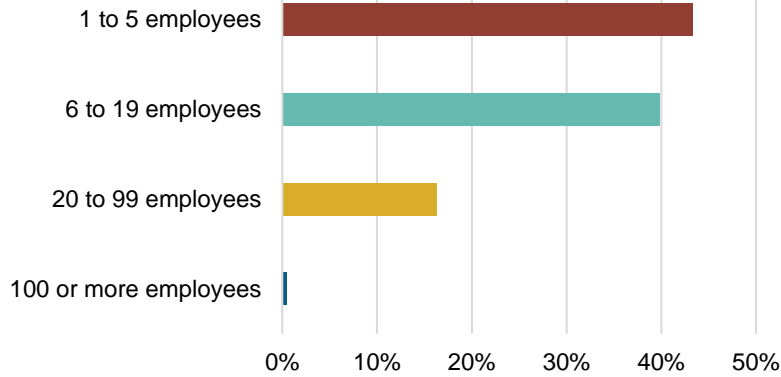
Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in Washington?

99.4% of WA EE Businesses Have Less Than 100 Employees



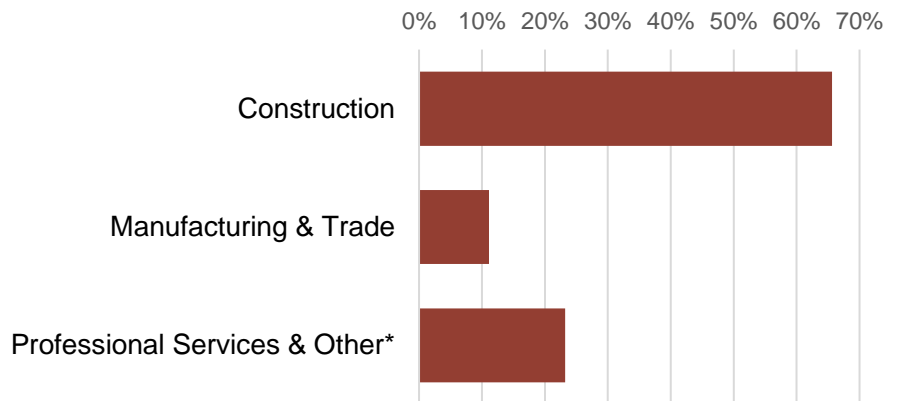
10,911
EE businesses in
Washington



EE construction workers comprise **18%** of Washington construction workers

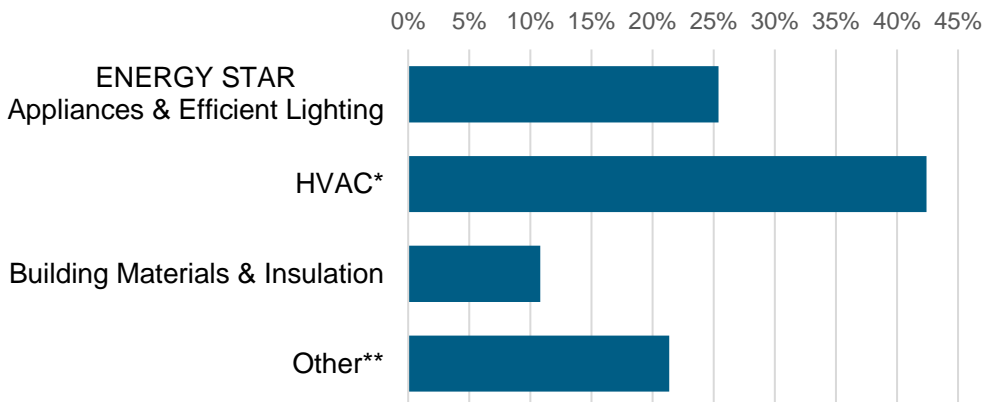


What type of work do energy efficiency firms do?



*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?



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

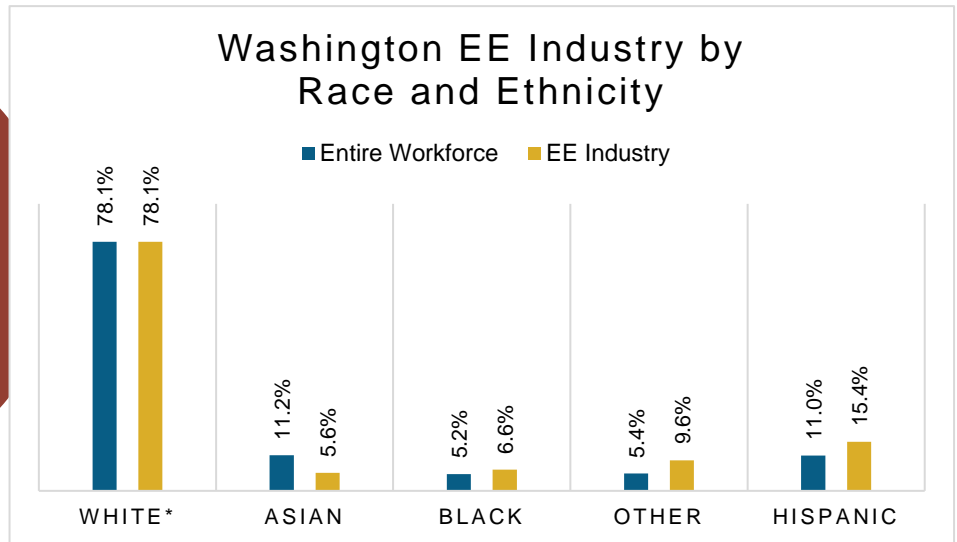


8% of
Washington
EE workers are
Veterans

How is EE doing on diversity in Washington?

Demographic data is crucial for benchmarks and to measure progress in the energy efficiency (EE) industry. In striving for more diversity in EE jobs, we can create a stronger and more inclusive industry. Promoting diversity in hiring is key to maintaining a future workforce of talented professionals and ensuring all Washington 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.

Washington's EE Potential

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

Weatherization Assistance Program:

1,922* units weatherized in 2018, out of **~290,000** total low-income households

2,139,286

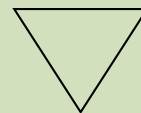
Washington homes are due for energy tune-ups



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

Potential to **reduce** residential electricity consumption by

20%



*National Association for State community Services Programs (NASCS) [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 by Location

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	10,420	Bellingham	2,271
2	4,653	Bremerton-Silverdale	1,905
3	5,296	Kennewick-Richland-Pasco	1,439
4	3,989	Lewiston	121
5	4,974	Longview	634
6	6,146	Mount Vernon-Anacortes	887
7	10,619	Olympia	1,955
8	5,510	Portland-Vancouver-Beaverton	3,818
9	2,739	Seattle-Tacoma-Bellevue	31,719
10	2,375	Spokane	4,168
		Wenatchee	838
		Yakima	1,343
		Rural	5,623

State Senate									
District	Jobs	District	Jobs	District	Jobs	District	Jobs		
1	2,595	14	1,392	27	1,424	40	2,022		
2	1,389	15	99	28	731	41	3,030		
3	2,670	16	163	29	330	42	621		
4	966	17	2,014	30	1,260	43	1,082		
5	2,100	18	606	31	87	44	<5		
6	398	19	1,313	32	603	45	1,307		
7	722	20	1,162	33	330	46	246		
8	1,195	21	1,259	34	653	47	<5		
9	960	22	489	35	422	48	<5		
10	2,357	23	1,694	36	4,337	49	523		
11	3,517	24	874	37	1,832				
12	1,013	25	1,130	38	1,169				
13	884	26	840	39	912				

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	2,595	14	1,411	27	1,425	40	2,008
2	1,389	15	100	28	731	41	3,031
3	2,680	16	163	29	<5	42	623
4	969	17	2,047	30	1,259	43	1,096
5	2,102	18	609	31	87	44	<5
6	399	19	1,317	32	603	45	1,308
7	725	20	1,171	33	340	46	246
8	1,200	21	1,259	34	656	47	<5
9	963	22	491	35	424	48	<5
10	2,389	23	1,700	36	4,409	49	524
11	3,603	24	877	37	1,839		
12	1,017	25	1,129	38	1,169		
13	887	26	840	39	912		



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 other professionals from every sector of the economy 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, July 2021, by the U.S. Department of Energy (see Appendix A 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.