

Arizona

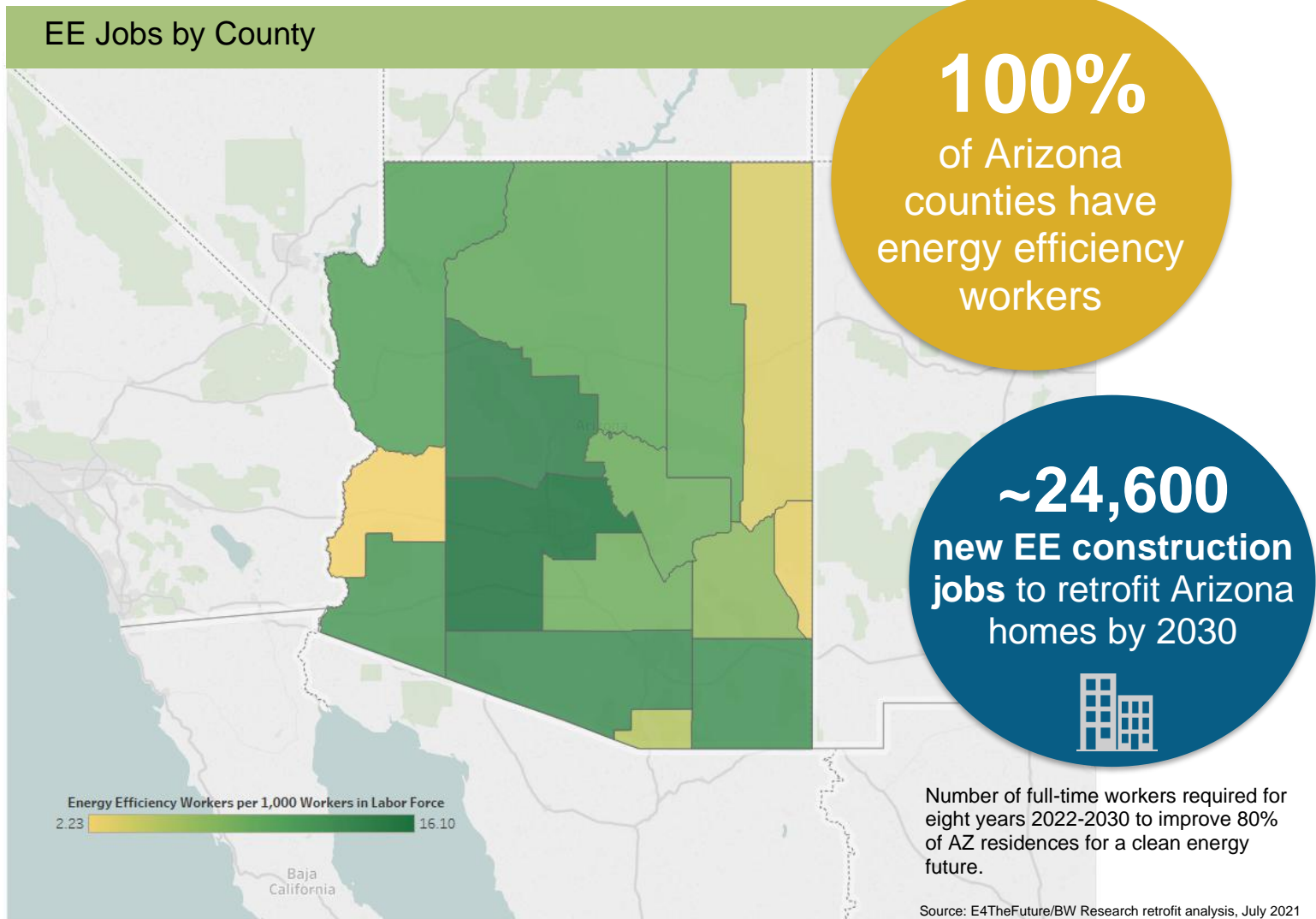
Energy Efficiency Jobs in America



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



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

Presented by:



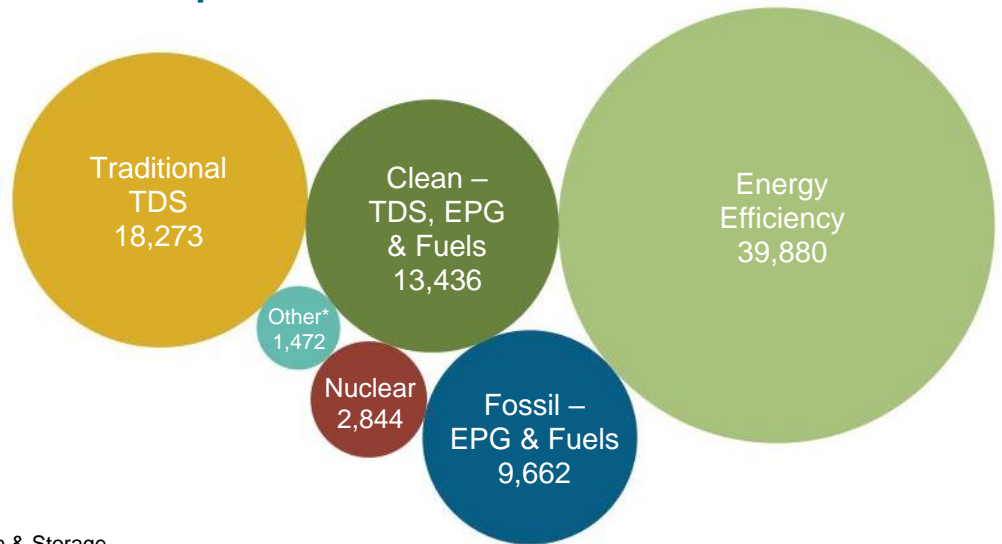
Key EE Statistics for Arizona

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 Arizona's energy sectors compare?

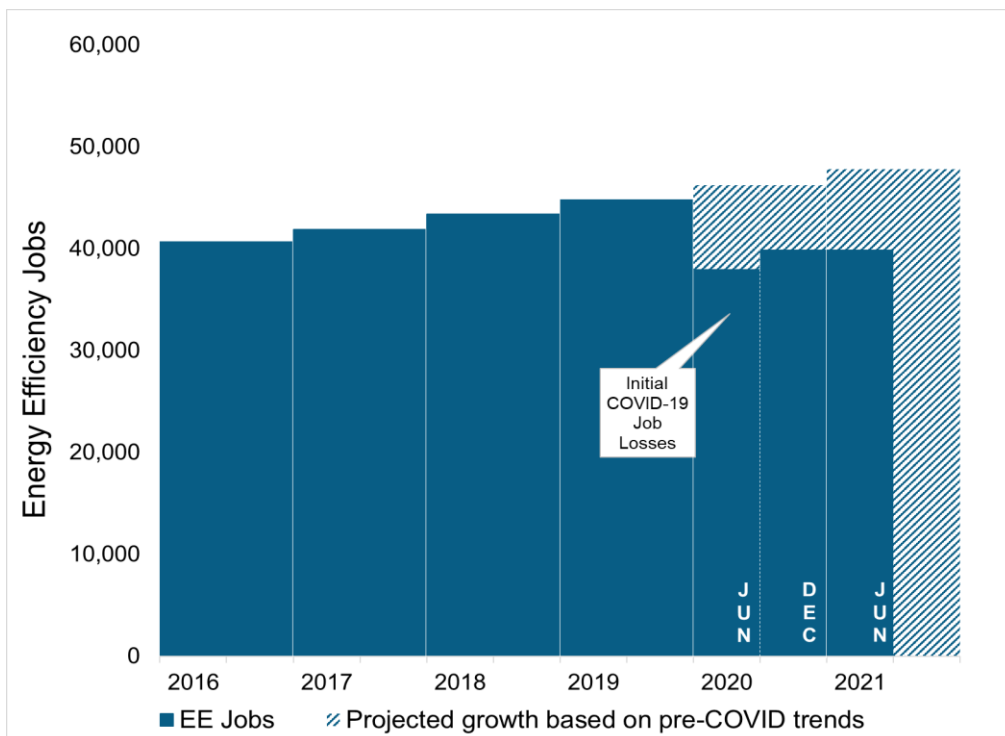
*Energy Efficiency is the **largest** energy sector in Arizona.*



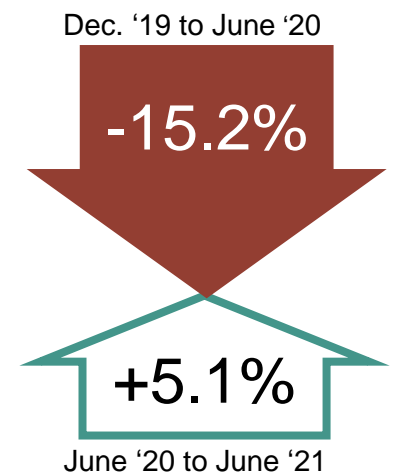
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?



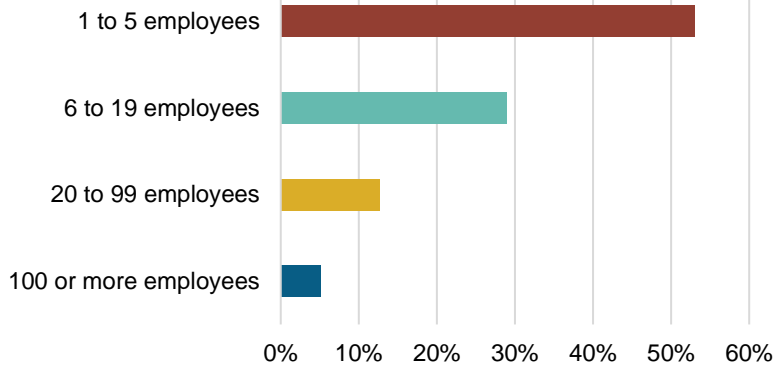
Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in Arizona?

94.7% of AZ EE Businesses Have Less Than 100 Employees



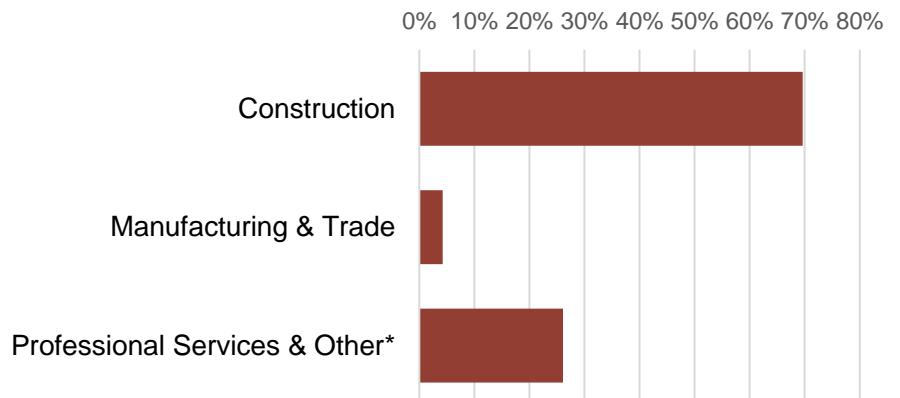
10,141
EE businesses in
Arizona



EE construction
workers comprise
15% of Arizona
construction
workers

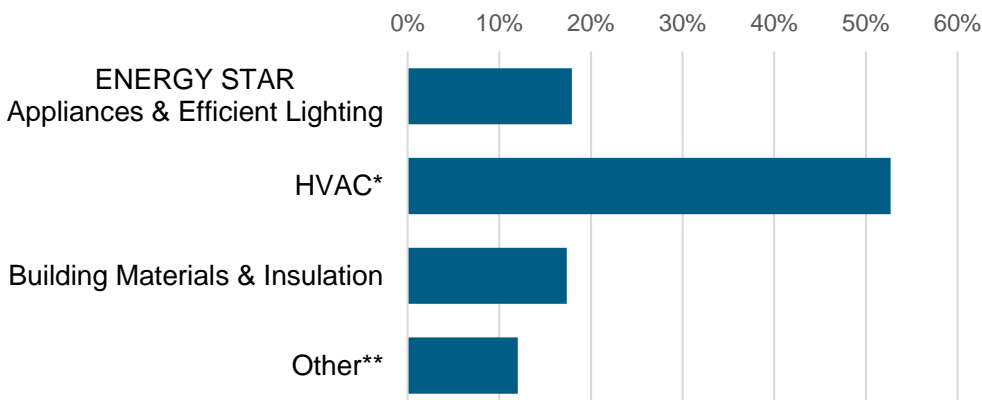


What type of work do energy efficiency firms do?



*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

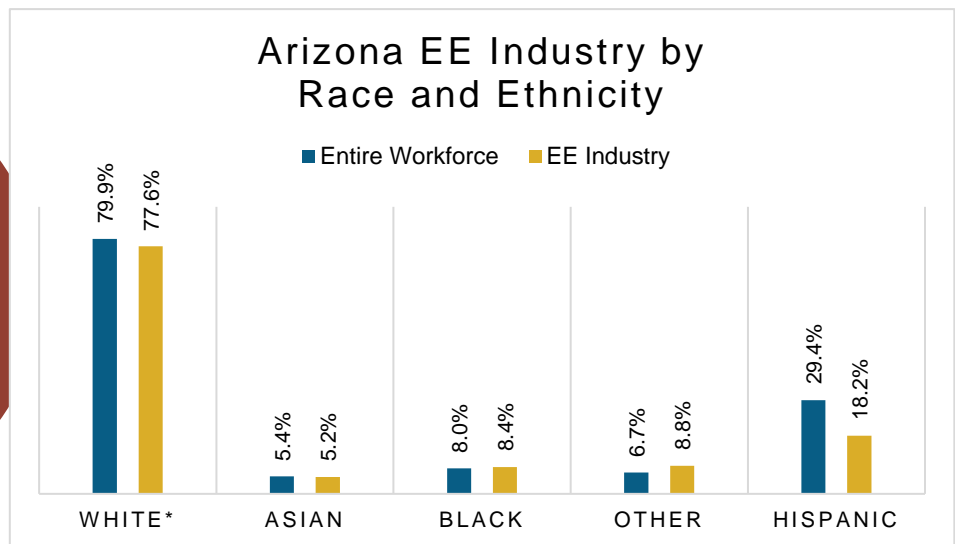


7% of
Arizona
EE workers are
Veterans

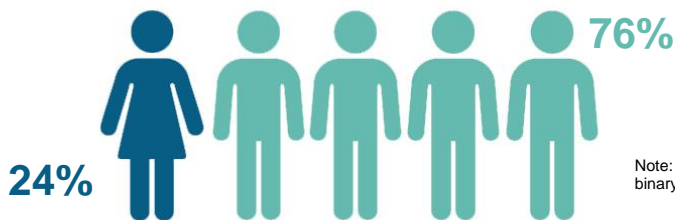
How is EE doing on diversity in Arizona?

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 Arizona 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.

Arizona's EE Potential

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

Weatherization Assistance Program:

557* units weatherized in 2018, out of **~370,000** total low-income households

1,754,996 Arizona homes are due for energy tune-ups

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

Potential to **reduce** residential electricity consumption by

37%

*National Association for State community Services Programs (NASCP) [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	4,008	Phoenix-Mesa-Scottsdale	29,809
2	4,609	Tucson	5,176
3	3,129	Yuma	532
4	3,448	Flagstaff	883
5	4,226	Lake Havasu City-Kingman	906
6	11,831	Prescott	1,140
7	7,086	Rural	1,434
8	1,023		
9	522		

AZ State Senate							
District	Jobs		District	Jobs		District	Jobs
1	2,177		11	140		21	399
2	2,067		12	3,011		22	108
3	1,269		13	542		23	4,000
4	875		14	605		24	6,897
5	985		15	2,968		25	526
6	1,100		16	576		26	1,516
7	306		17	671		27	<5
8	1,059		18	2,188		28	574
9	1,560		19	1,347		29	381
10	246		20	1,486		30	301

State House of Representatives						
District		Jobs		District		Jobs
1		2,171		28		547
2		2,166		29		356
3		1,236		30		282
4		846				
5		973				
6		1,090				
7		379				
8		999				
9		1,531				
10		240				
11		136				
12		2,799				
13		549				
14		608				
15		2,871				
16		555				
17		629				
18		2,107				
19		1,925				
20		1,409				
21		378				
22		101				
23		3,943				
24		7,021				
25		499				
26		1,534				
27		<5				



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.