Vermont

Energy Efficiency Jobs in America

June 2021*

10,100

Dec 2020

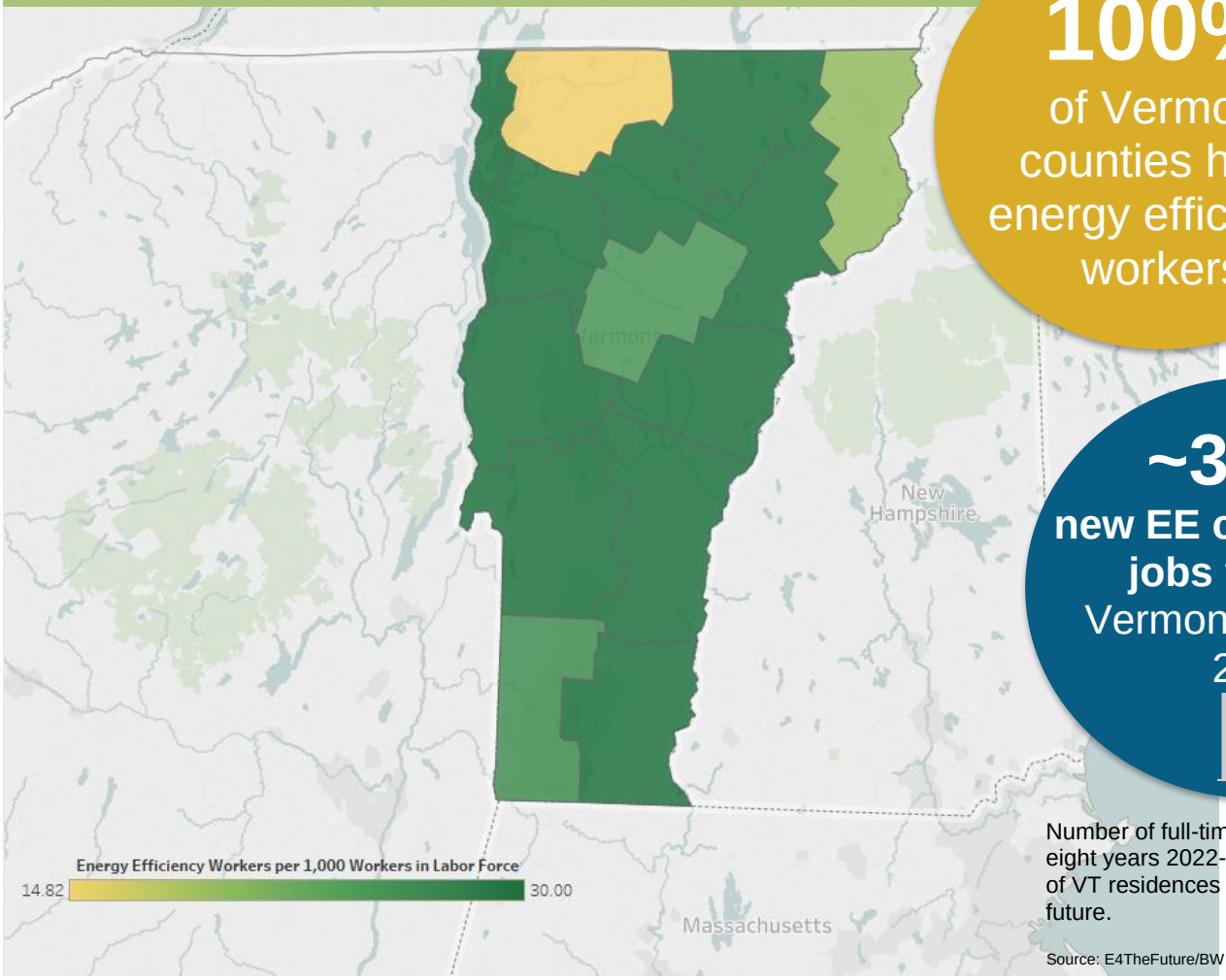
10,069

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

~3,300 **new EE construction jobs** to retrofit Vermont homes by 2030

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

Source: E4TheFuture/BW Research retrofit analysis, July 2021

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

Presented by:

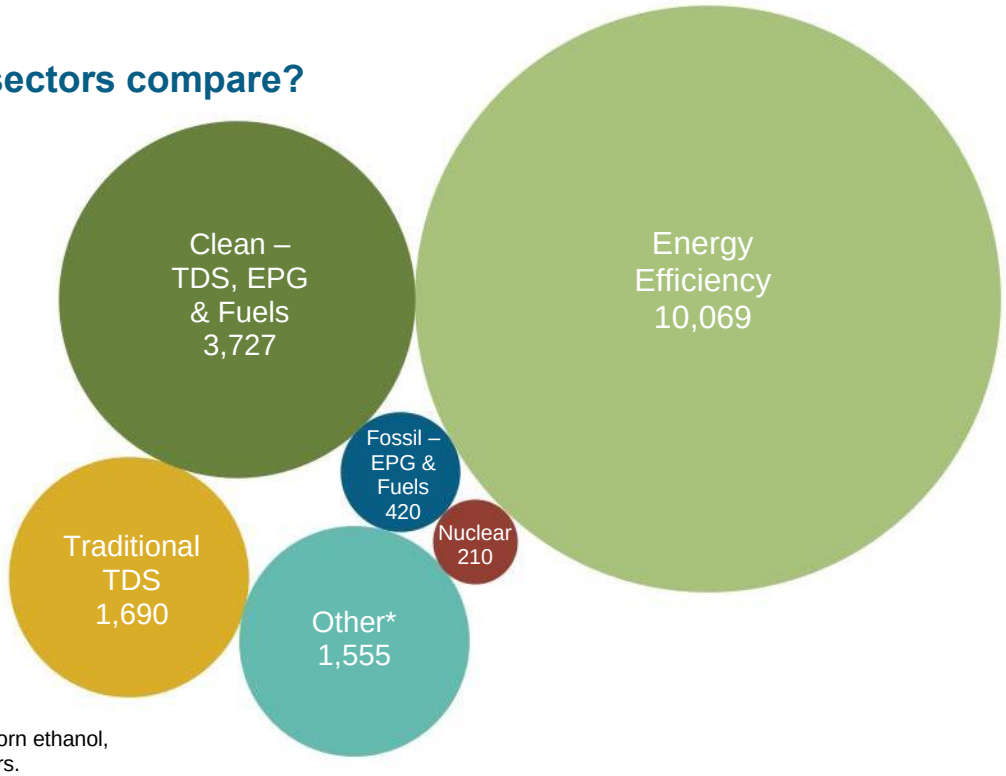
Key EE Statistics for Vermont

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 Vermont's energy sectors compare?

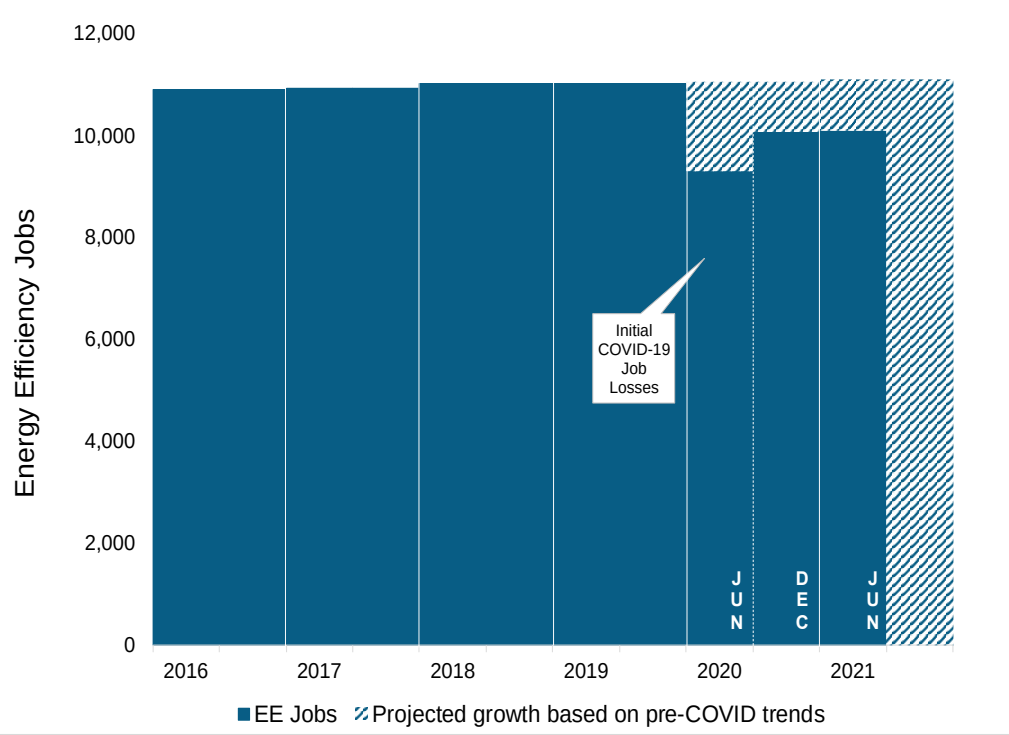
*Energy Efficiency is the **largest** energy sector in Vermont.*



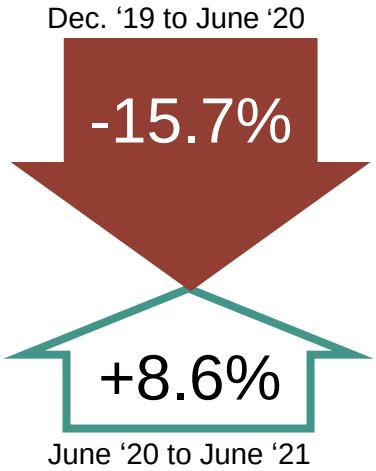
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?

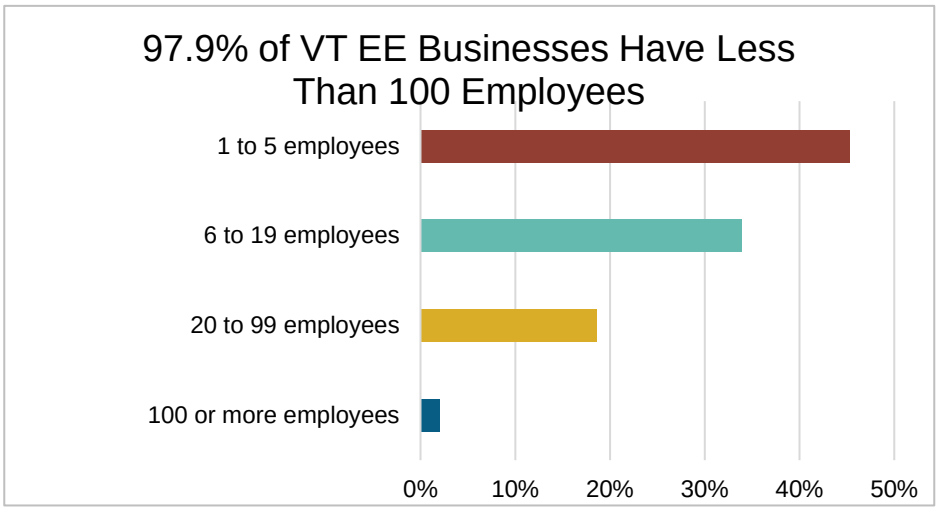


Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



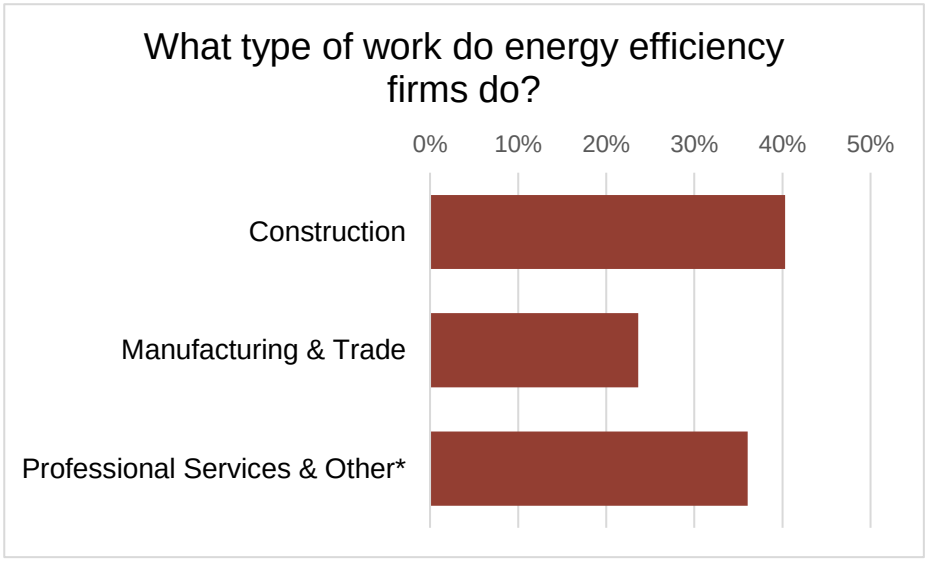
Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in Vermont?

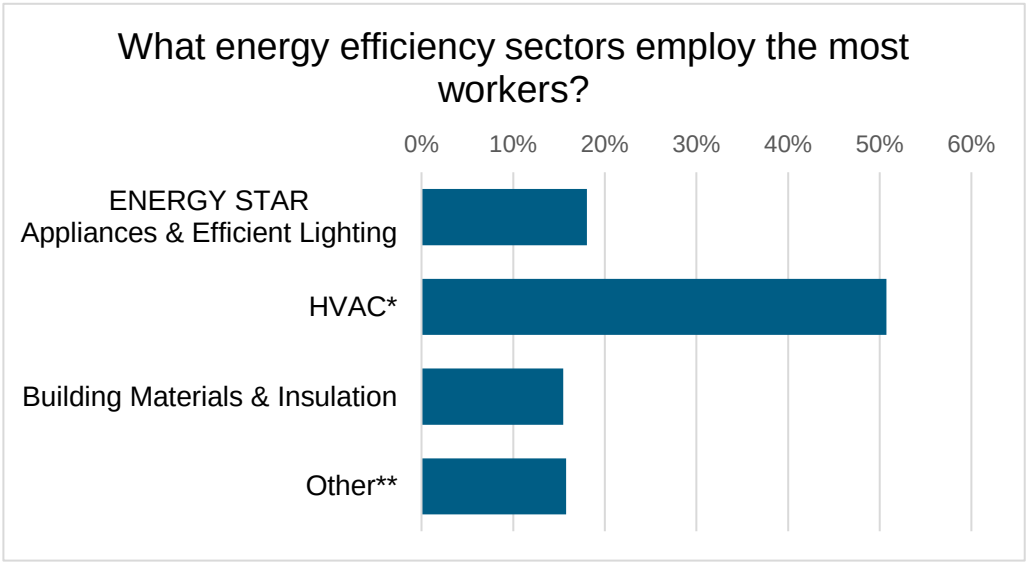


1,568
EE businesses in Vermont

EE construction workers comprise **28%** of Vermont construction workers



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



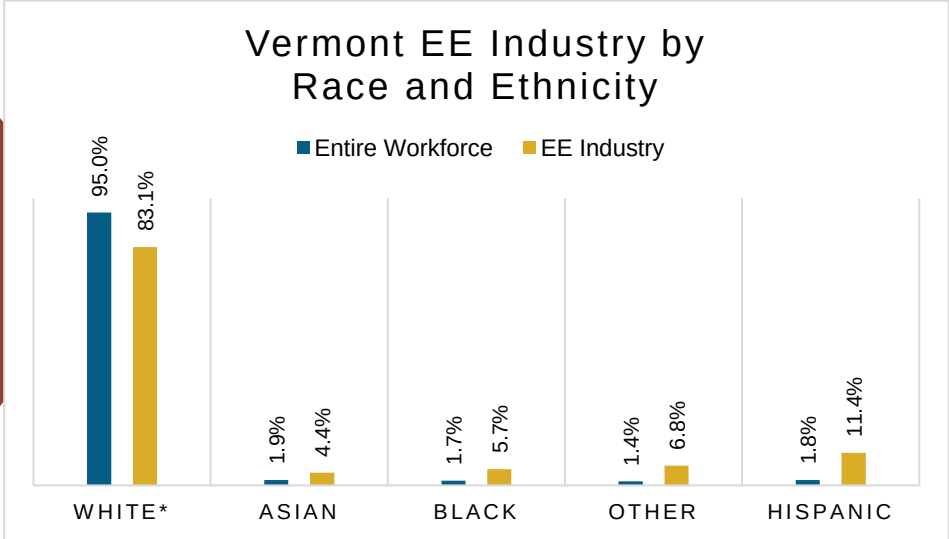
7% of Vermont EE workers are **Veterans**

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

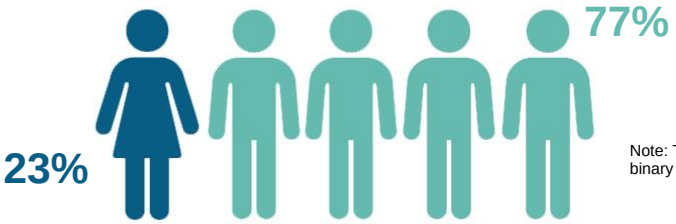
How is EE doing on diversity in Vermont?

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 Vermont 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.

Vermont's EE Potential

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

Weatherization Assistance Program:

649* units weatherized in 2018, out of **~28,000** total low-income households

256,254

Vermont homes are due for energy tune-ups

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

Potential to **reduce** residential electricity consumption by

18%

*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 by Location

Congressional		Metropolitan Areas	
District	Jobs	Area	Jobs
1	10,069	Burlington-South Burlington	3,357
		Rural	6,712

State Senate							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
ADD	718	CHI	2,227	ORA	310	WSR	779
BEN	609	E-O	507	RUT	894		
CAL	773	FRA	495	WAS	924		
CGI	824	LAM	315	WDM	693		

State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
A-1	145	C71	471	LM2	238	W-1	298
A-2	93	C81	262	LMW	12	W-3	286
A-3	146	C83	20	O-1	169	W-5	55
A-4	231	C91	<5	O-2	80	W-6	31
A-R	101	CA1	178	O-C	76	WA1	316
B-1	194	CA2	58	O-L	18	WA5	48
B-3	116	CA4	112	OLC	33	WA6	6
B-4	101	CAW	101	OR1	383	WA7	670
B-R	159	E-C	48	OR2	15	WAC	187
C-1	114	ECO	82	OWA	132	WBW	62
C10	153	F-1	240	R-1	100	WIB	50
C-2	445	F-2	36	R-2	53	Y-1	222
C-3	95	F-4	146	R-3	18	Y-2	151
C41	71	F-5	29	R-4	398	Y31	22
C51	92	F-6	69	R-6	51	Y41	25
C61	58	F-7	11	R-B	57	YO2	83
C62	567	GIC	95	R-W	186	Y-R	111
C67	350	LM1	109	RW2	130		

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.