

California

Energy Efficiency Jobs in America

302,176

Total Jobs

What are EE jobs?

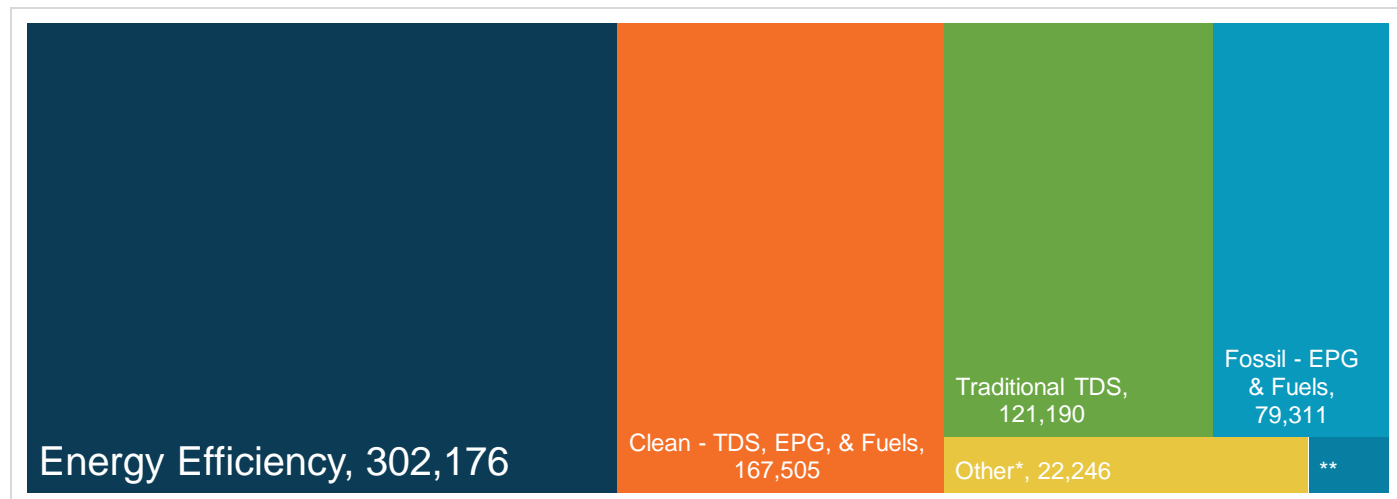
Jobs that deliver goods and services that lower energy use by improving energy efficiency with a focus on appliances, buildings, data systems, financing, new technologies, and more.

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 and industrial buildings.
- **Design and construct** high-performance buildings such as those earning nationally recognized sustainability and environmental performance ratings.
- **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 California?

Energy efficiency is the largest energy sector in California.



TDS = Transmission, Distribution & Storage

EPG = Electric Power Generation

**Nuclear (EPG & Fuels) = 4,913

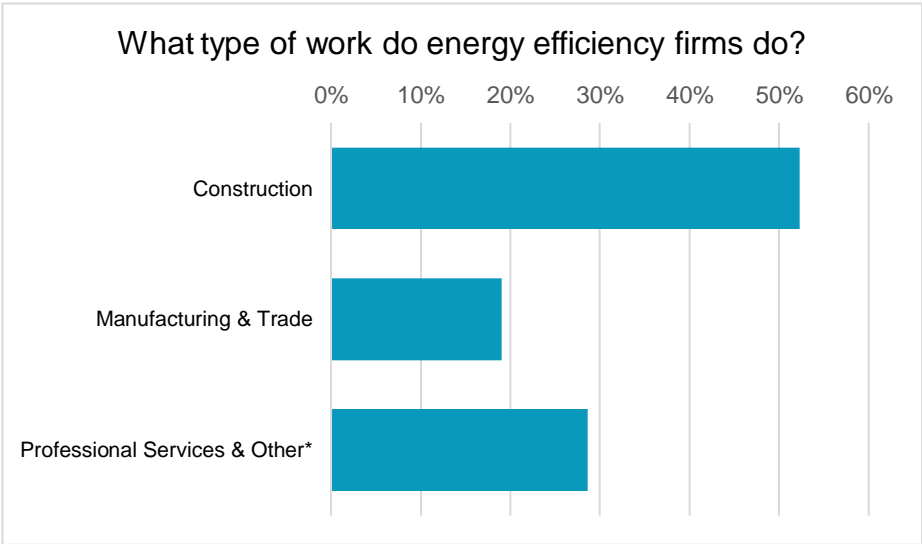
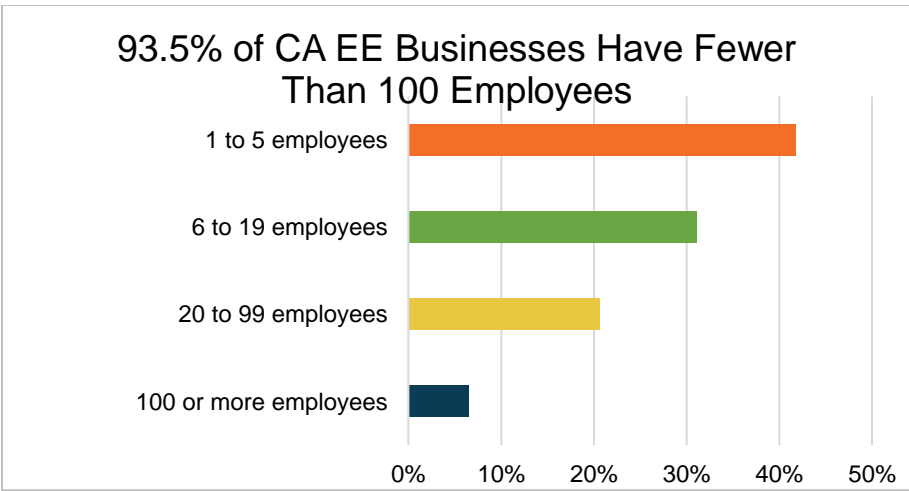
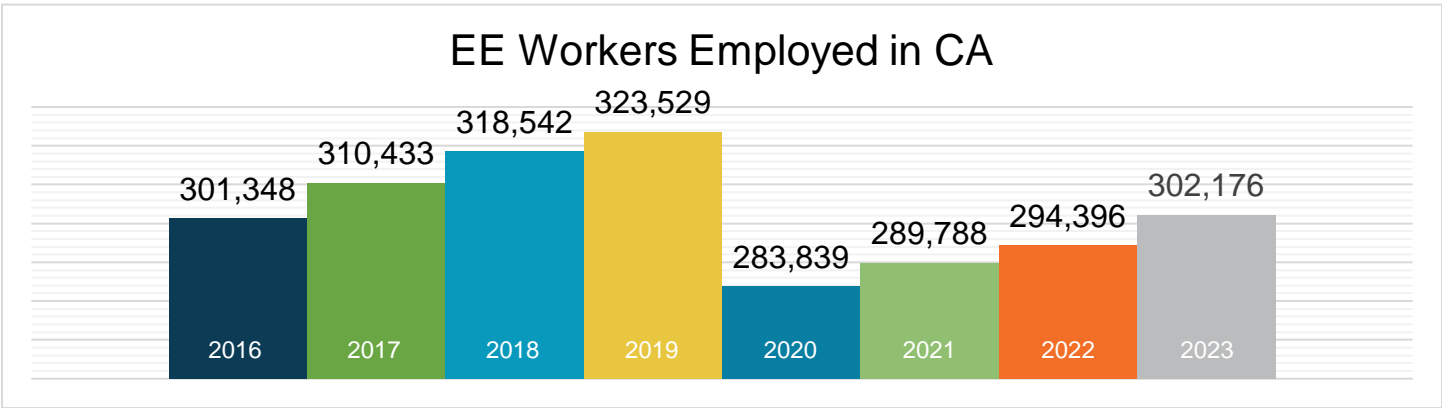
*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

Presented by:



E4 THE FUTURE

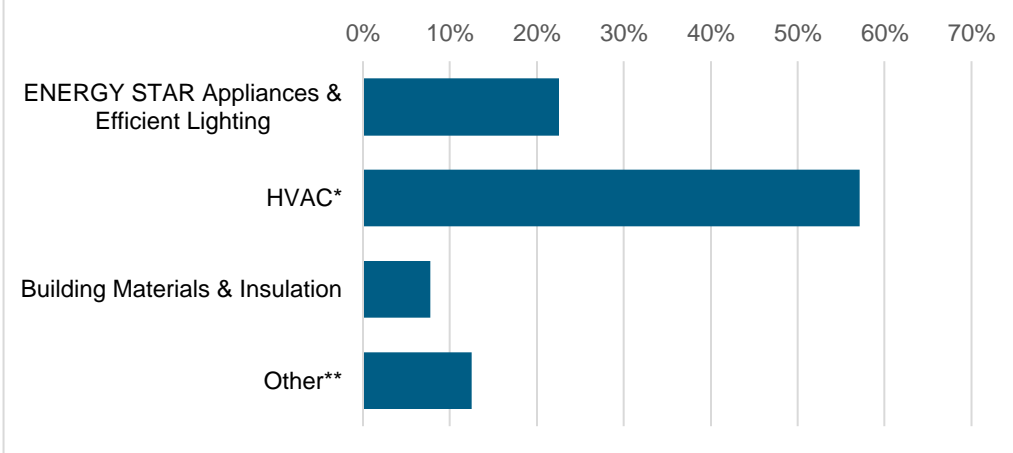
What does EE look like in California?



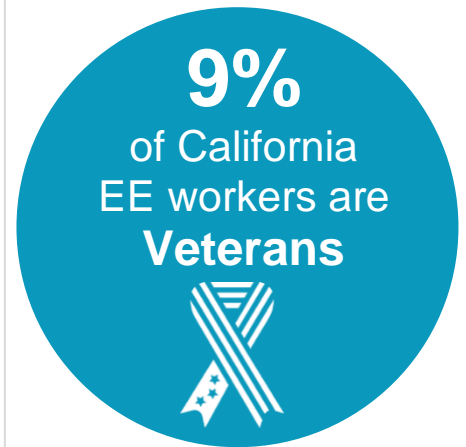
*Professional services include finance/accounting, architecture, engineering, R&D, etc. and other includes maintenance, and business, and nonprofit organizations.



What energy efficiency sectors employ the most workers?



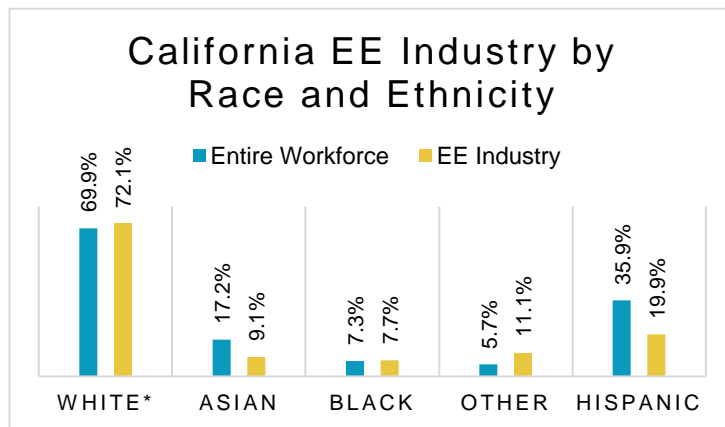
*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating & cooling
 **Other such as energy audits, building certifications, and software services



How is EE doing on diversity in California?

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 California 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 California businesses.



*Includes non-Hispanic and Hispanic whites.

Gender in the California EE Workforce

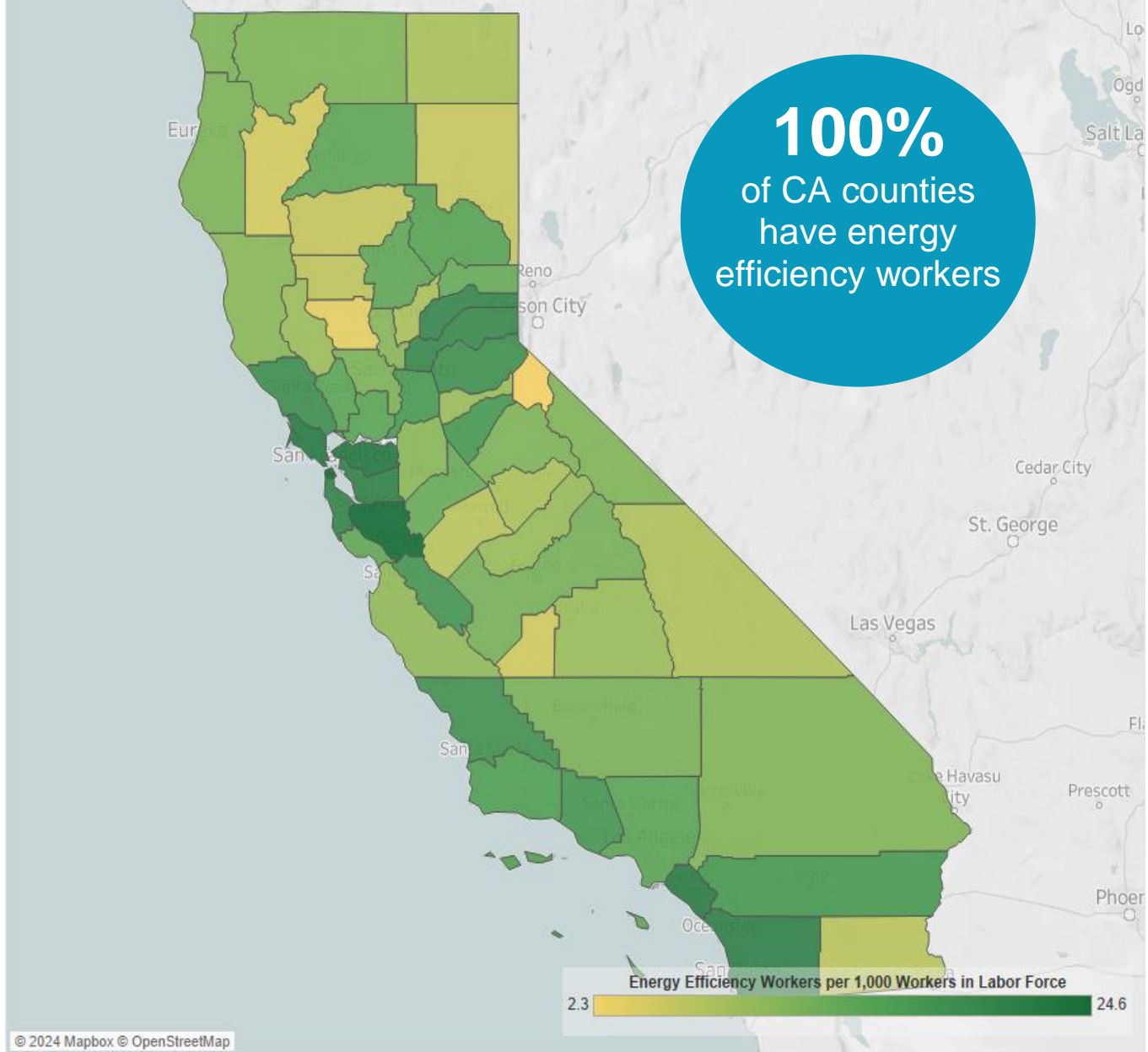


Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Non-binary gender data is missing from this document due to this limitation.



Energy Efficiency Jobs are Everywhere

EE Jobs by County



Metropolitan Areas			
Area	Jobs	Area	Jobs
Bakersfield	3,943	Salinas	1,700
Chico	1,053	San Diego-Carlsbad	31,621
El Centro	425	San Francisco-Oakland-Hayward	53,176
Fresno	4,886	San Jose-Sunnyvale-Santa Clara	27,887
Hanford-Corcoran	245	San Luis Obispo-Paso Robles-Arroyo Grande	2,079
Los Angeles-Long Beach-Anaheim	98,783	Santa Cruz-Watsonville	1,350
Madera	510	Santa Maria-Santa Barbara	3,186
Merced	553	Santa Rosa	3,810
Modesto	2,513	Stockton-Lodi	2,910
Napa	1,066	Vallejo-Fairfield	1,995
Oxnard-Thousand Oaks-Ventura	5,561	Visalia-Porterville	1,541
Redding	942	Yuba City	489
Riverside-San Bernardino-Ontario	22,742	Rural	9,894
Sacramento-Roseville-Arden-Arcade	17,316		

State Senate										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	11,862		11	19,089		21	3,635		31	3,747
2	10,243		12	3,785		22	6,079		32	3,728
3	11,201		13	8,777		23	4,412		33	5,518
4	5,106		14	5,477		24	7,899		34	8,403
5	5,493		15	5,207		25	4,445		35	3,651
6	6,081		16	4,040		26	10,943		36	11,697
7	7,434		17	10,070		27	7,090		37	9,276
8	7,469		18	7,601		28	6,663		38	9,424
9	11,087		19	7,577		29	7,362		39	12,448
10	13,725		20	7,015		30	4,899		40	2,519



State Assembly

District	Jobs	District	Jobs	District	Jobs
1	6,070	31	1,042	61	2,815
2	4,681	32	1,825	62	2,288
3	1,890	33	2,642	63	2,896
4	6,727	34	1,897	64	2,066
5	3,346	35	6,835	65	3,606
6	6,109	36	2,219	66	1,831
7	7,170	37	6,791	67	2,661
8	1,150	38	4,306	68	8,177
9	965	39	2,427	69	3,099
10	4,639	40	2,754	70	2,248
11	2,015	41	4,804	71	4,398
12	3,603	42	4,333	72	2,306
13	1,726	43	3,343	73	3,693
14	7,296	44	2,002	74	4,958
15	6,062	45	5,320	75	3,992
16	2,537	46	1,873	76	3,366
17	18,413	47	1,195	77	12,436
18	5,135	48	2,357	78	7,387
19	1,758	49	1,784	79	1,542
20	4,948	50	8,579	80	75
21	1,121	51	2,594		
22	4,796	52	4,173		
23	4,975	53	3,132		
24	5,910	54	2,677		
25	8,789	55	3,697		
26	2,763	56	874		
27	1,531	57	2,790		
28	2,755	58	751		
29	4,596	59	436		
30	1,592	60	1,810		



Congressional			
District	Jobs	District	Jobs
1	4,192	28	4,798
2	7,414	29	4,087
3	8,420	30	4,884
4	4,946	31	4,000
5	3,885	32	4,763
6	6,550	33	2,300
7	6,512	34	4,184
8	4,714	35	3,561
9	3,129	36	4,805
10	7,171	37	4,150
11	21,795	38	4,562
12	7,092	39	3,092
13	3,099	40	7,943
14	7,435	41	4,712
15	9,113	42	4,599
16	10,023	43	3,987
17	10,830	44	4,224
18	6,427	45	6,965
19	6,995	46	6,962
20	3,711	47	8,268
21	2,630	48	6,007
22	2,024	49	7,599
23	2,977	50	8,179
24	7,391	51	7,098
25	2,483	52	5,446
26	6,656		
27	3,388		





The Building Performance Association (BPA) is a 501(c) 6 nonprofit industry association that serves as the hub for businesses, nonprofits, and government agencies working to make America's homes more comfortable, healthy, and energy efficient. Our mission is to transform the market for the home performance industry through advocacy, education, professional development, and networking. Visit www.building-performance.org.



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.



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, August 2024, 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 BPA analyses please email: communications@building-performance.org

