

Massachusetts

Energy Efficiency Jobs in America

June 2021*

77,468

Dec 2020

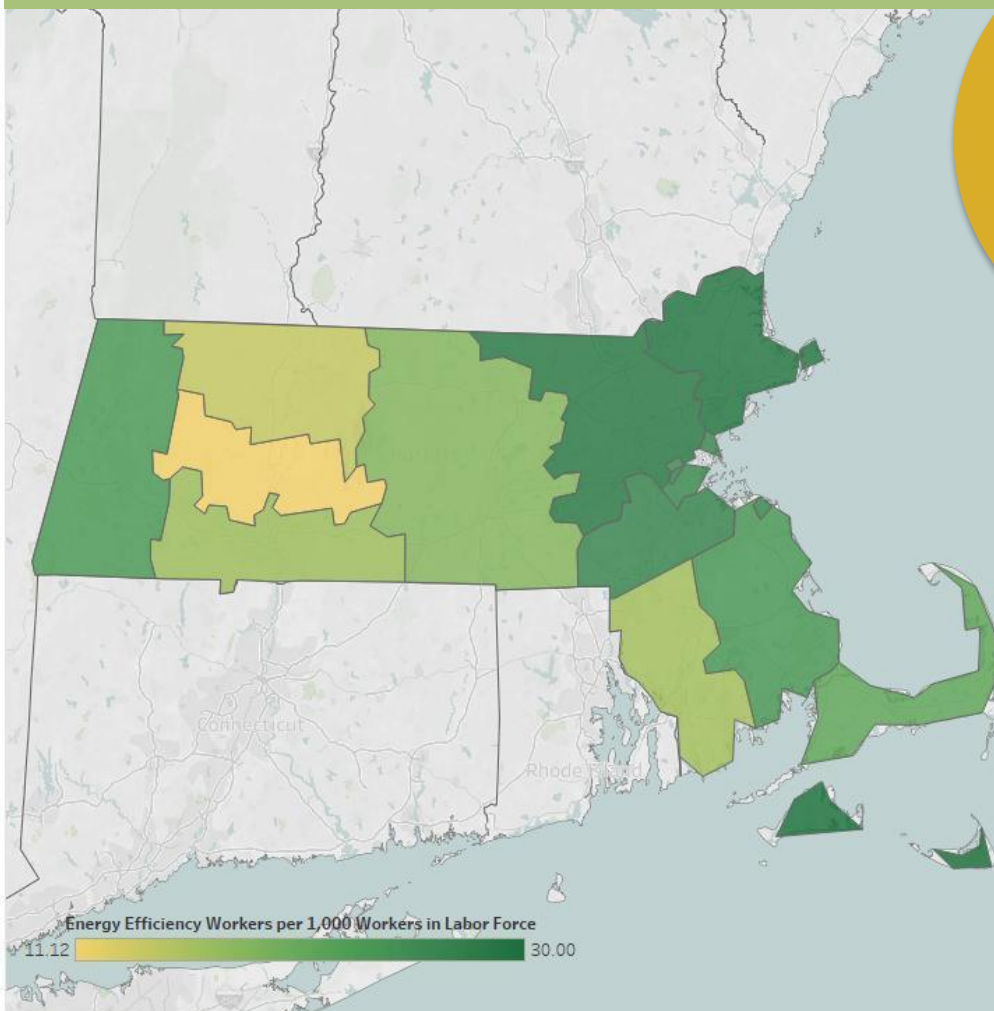
76,900

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

~35,600

new EE construction jobs to retrofit Massachusetts homes by 2030



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

Source: E4TheFuture/BW Research retrofit analysis, July 2021

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

Presented by:



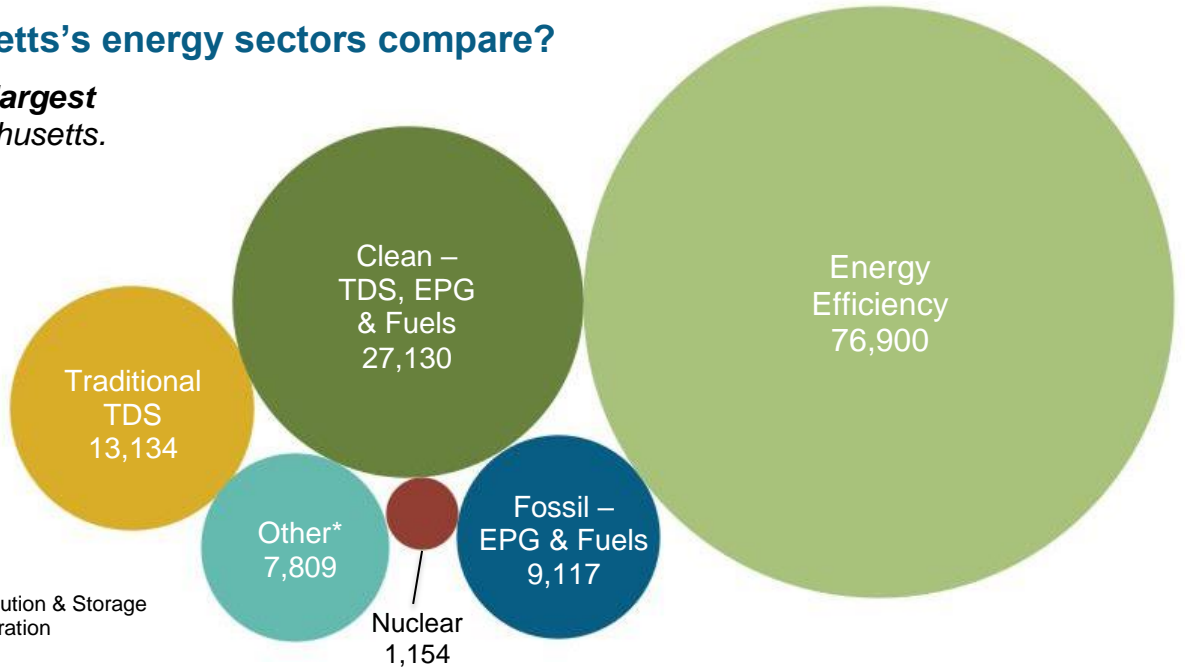
Key EE Statistics for Massachusetts

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 Massachusetts's energy sectors compare?

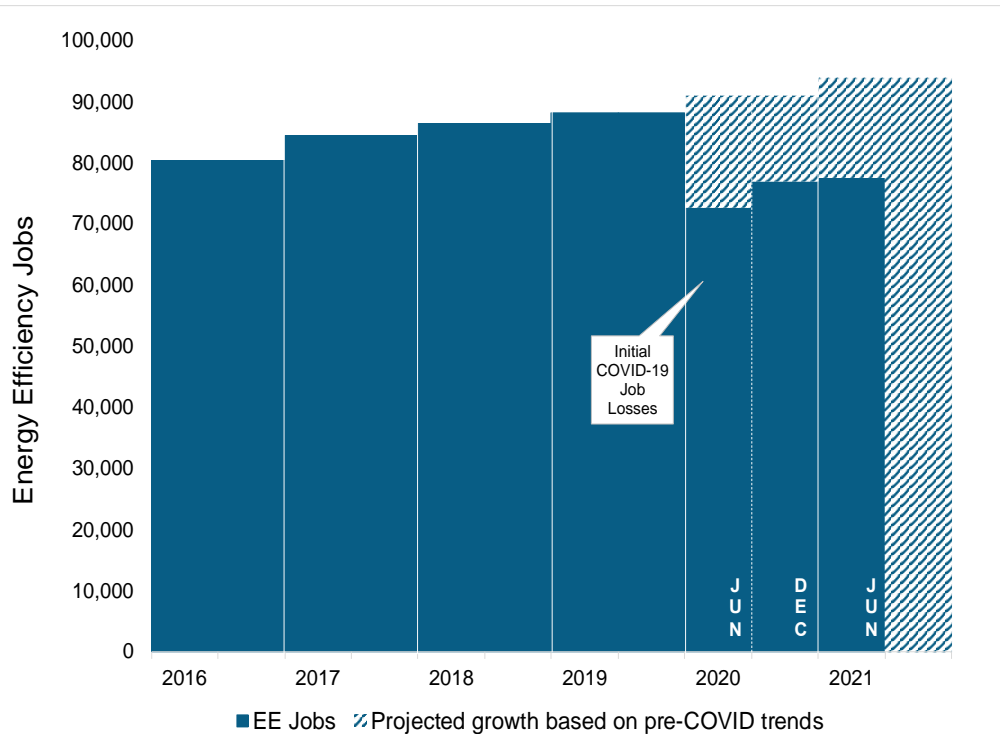
Energy Efficiency is the **largest** energy sector in Massachusetts.



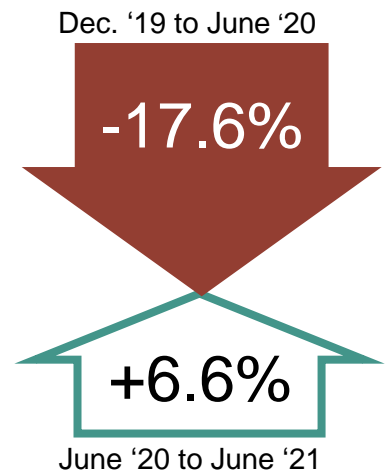
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?



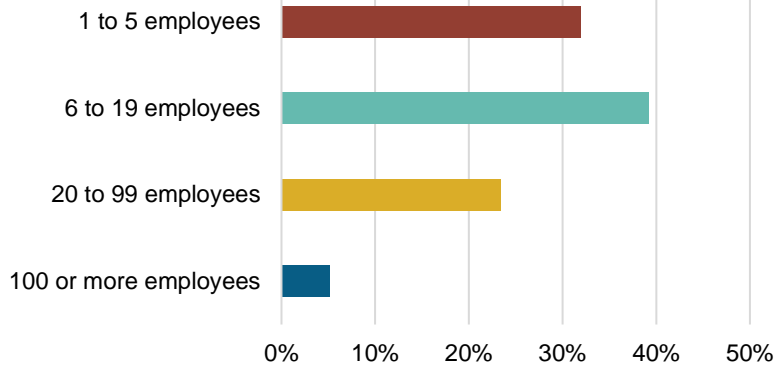
Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in Massachusetts?

94.7% of MA EE Businesses Have Less Than 100 Employees

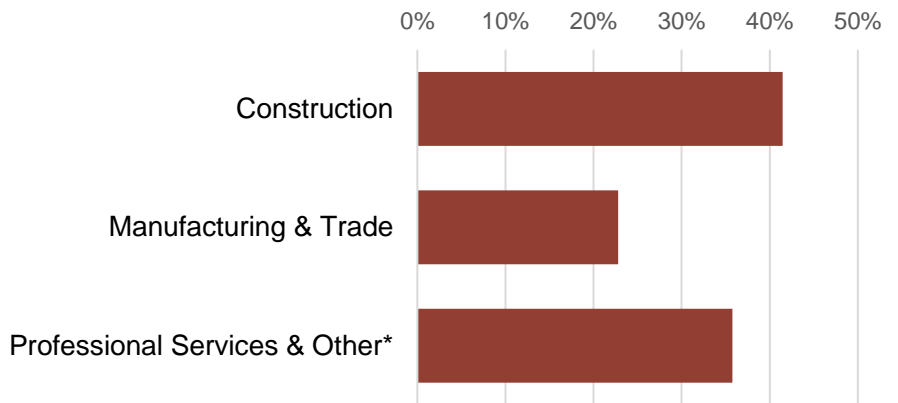


9,621
EE businesses in
Massachusetts

EE construction workers comprise **20%** of Massachusetts construction workers

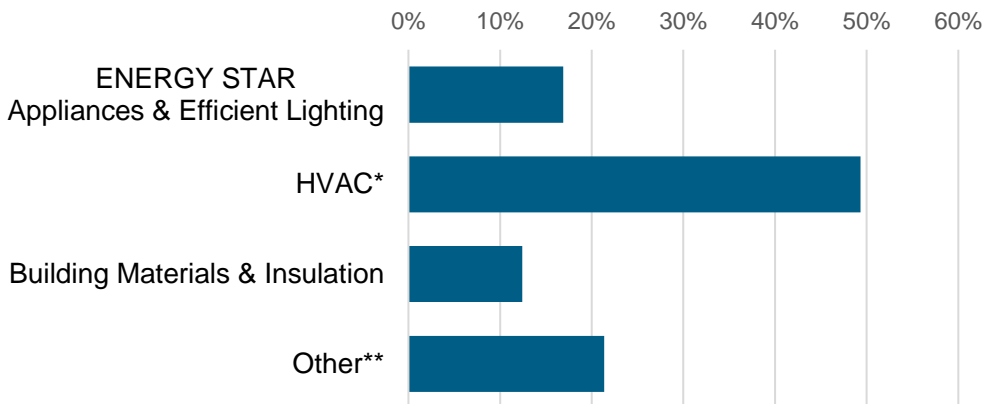


What type of work do energy efficiency firms do?



*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?



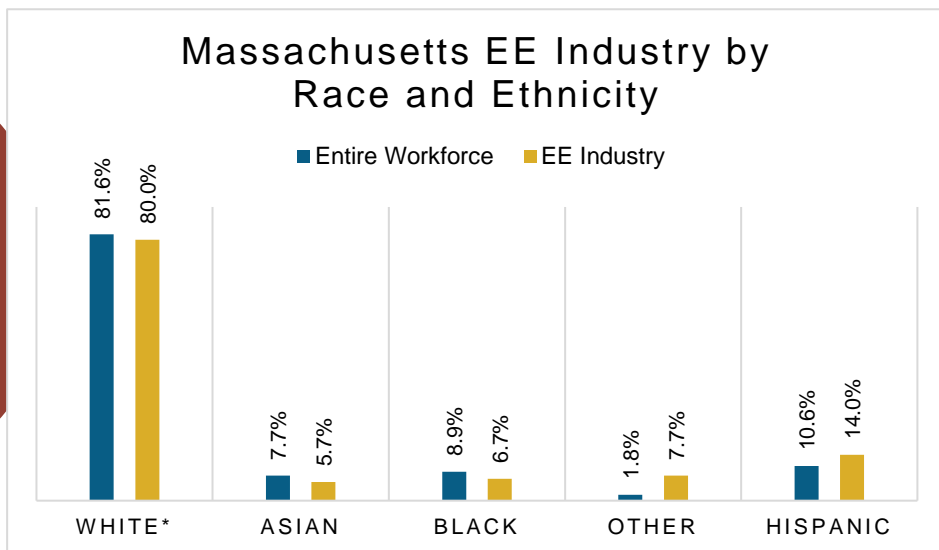
*Heating, Ventilation, Air Conditioning of higher than standard efficiency/renewable heating & cooling
**Other such as energy audits, building certifications, and software services

7% of
Massachusetts
EE workers are
Veterans

How is EE doing on diversity in Massachusetts?

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 Massachusetts 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.

Massachusetts's EE Potential

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

Weatherization Assistance Program:


18,189* units weatherized in 2018, out of ~**260,000** total low-income households

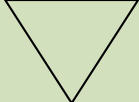
2,329,800

Massachusetts homes are due for energy tune-ups



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

Potential to **reduce** residential electricity consumption by

16%


*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	6,560	Barnstable Town	3,255
2	6,654	Boston-Cambridge-Quincy	54,814
3	10,537	Pittsfield	1,348
4	9,422	Providence-New Bedford-Fall River	4,721
5	9,059	Springfield	6,051
6	9,416	Worcester	6,228
7	8,277	Rural	483
8	9,533		
9	7,443		

State Upper House										
District	Jobs		District	Jobs		District	Jobs		District	Jobs
1	2,289		12	820		23	3,124		34	1,528
2	2,286		13	2,231		24	1,377		35	992
3	1,815		14	3,687		25	1,370		36	1,957
4	1,740		15	2,807		26	2,633		37	1,249
5	851		16	3,045		27	4,984		38	1,042
6	1,620		17	2,231		28	753		39	2,095
7	1,058		18	3,679		29	1,526		40	2,360
8	1,063		19	2,086		30	1,171			
9	1,091		20	2,529		31	1,422			
10	2,148		21	2,476		32	2,381			
11	989		22	825		33	1,572			

State Lower House

District	Jobs	District	Jobs	District	Jobs	District	Jobs
60	1,252	101	394	143	790	189	652
61	209	102	566	144	189	190	200
62	664	103	393	145	500	192	388
63	412	104	316	147	167	193	124
64	798	105	294	148	198	200	361
65	799	106	204	149	149	201	<5
66	559	107	728	153	367	203	282
68	482	108	318	154	453	204	109
69	620	109	182	155	247	206	399
70	308	110	141	156	1,184	207	166
71	917	111	794	157	1,304	208	283
72	353	114	212	159	453	209	630
73	103	115	720	160	427	210	425
74	815	116	231	161	456	211	489
75	33	117	<5	162	971	212	78
76	435	118	445	164	365	213	364
77	479	119	1,244	165	539	214	261
78	364	120	481	166	466	215	573
79	42	121	1,722	167	624	216	85
80	411	122	1,031	168	369	217	496
81	33	123	581	169	555	218	100
82	220	124	265	170	786	219	39
83	680	125	919	171	417		
84	863	126	1,379	172	<5		
85	107	127	684	173	293		
86	351	128	809	174	340		
87	666	129	80	175	245		
88	519	130	275	176	770		
89	765	131	842	177	343		
90	366	132	1,726	178	288		
91	1,010	133	671	179	248		
92	116	134	884	180	535		
93	8	136	1,040	181	151		
94	591	137	488	183	191		
95	555	138	813	184	337		
96	2,263	139	305	185	419		
98	119	140	628	186	7,839		
99	1,274	141	963	187	618		
100	569	142	581	188	320		



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.