

New York

Energy Efficiency Jobs in America

June 2021*

122,083

Dec 2020

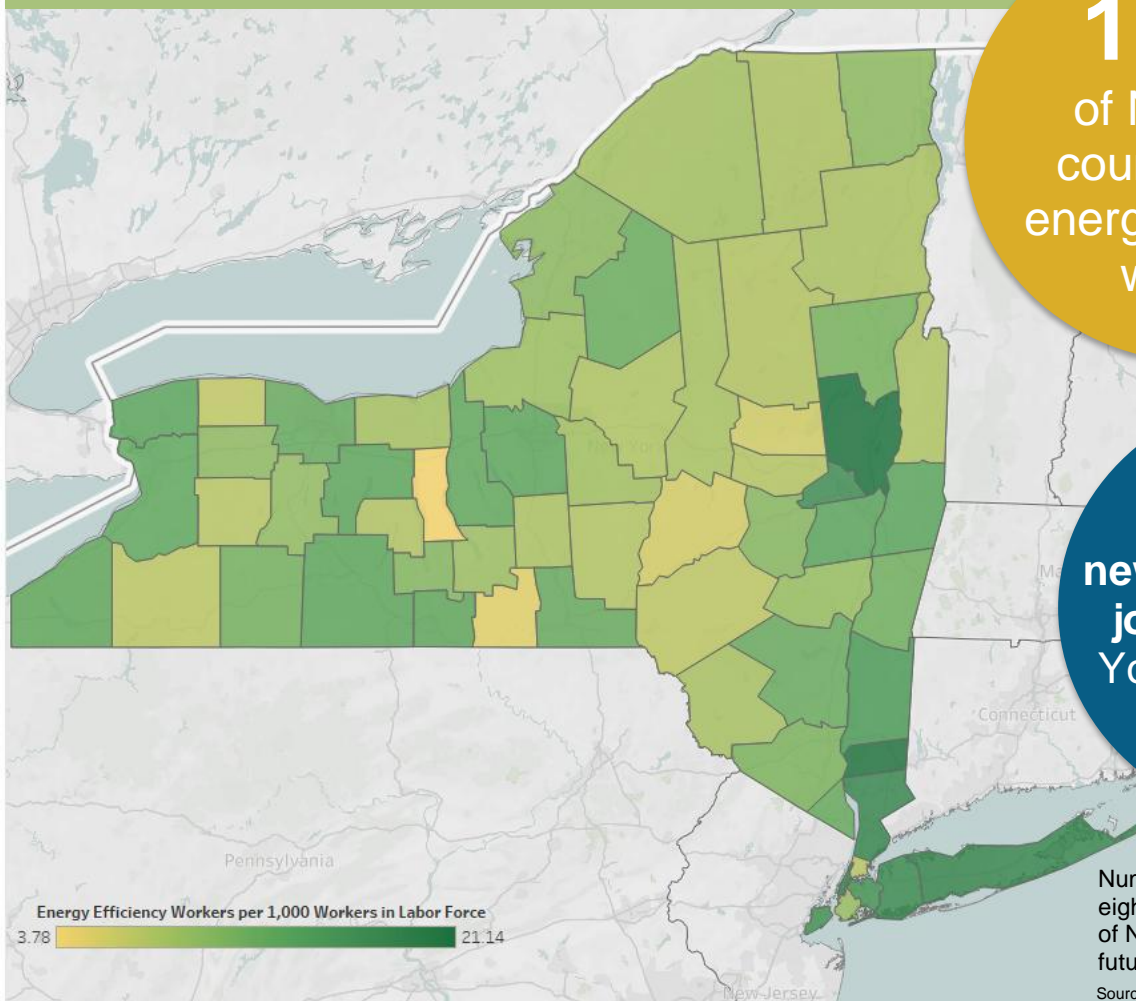
120,961

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

~80,700
new EE construction
jobs to retrofit New
York homes by 2030



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

Source: E4TheFuture/BW Research retrofit analysis, July 2021

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

Presented by:



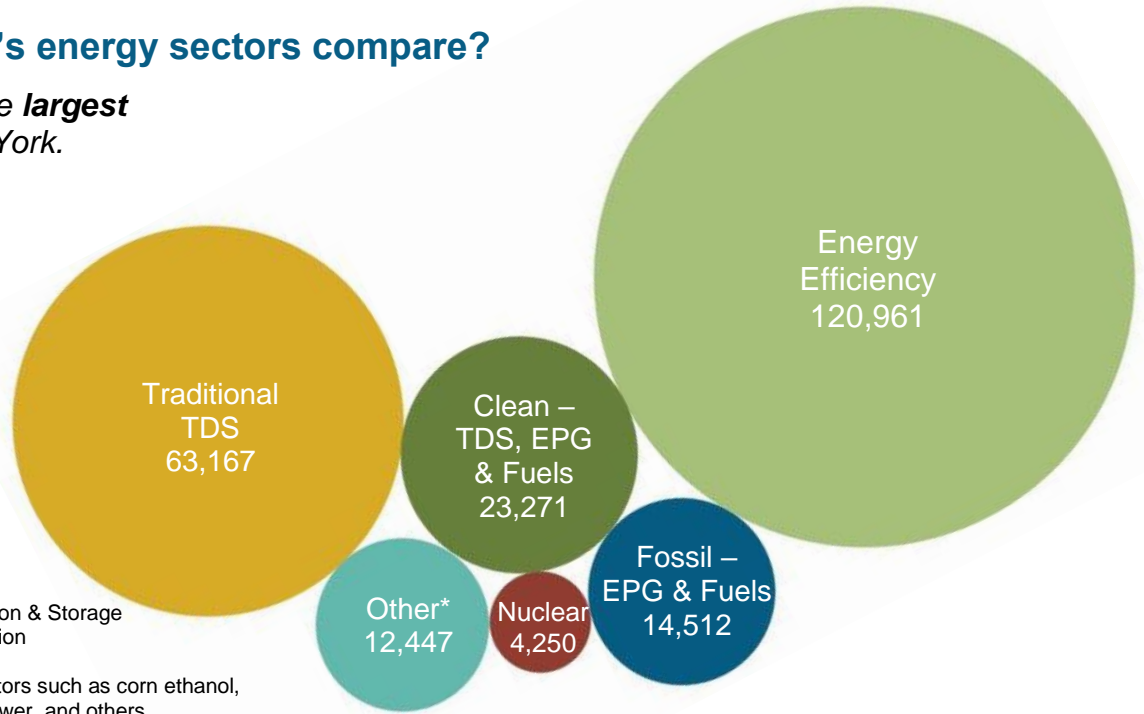
Key EE Statistics for New York

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 New York's energy sectors compare?

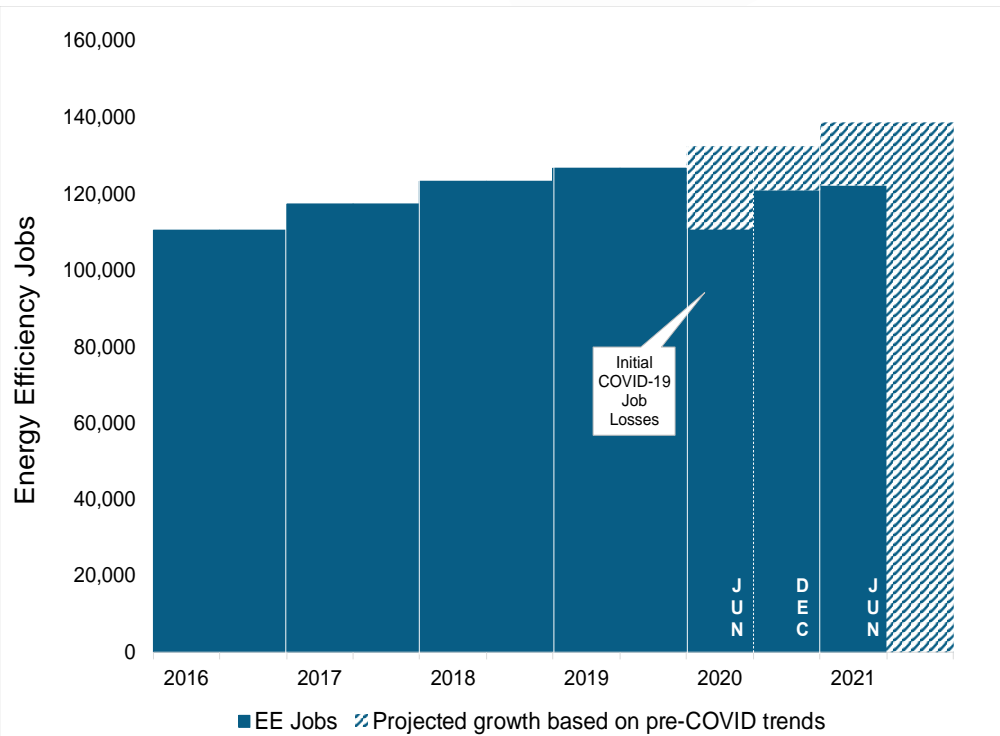
Energy Efficiency is the **largest** energy sector in New York.



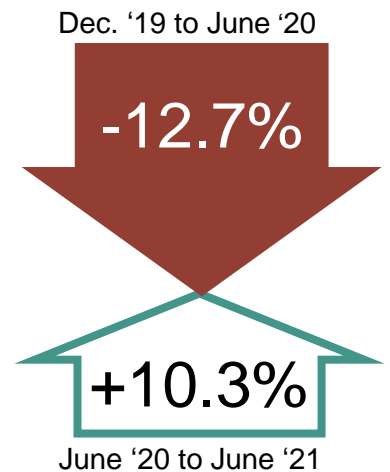
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?



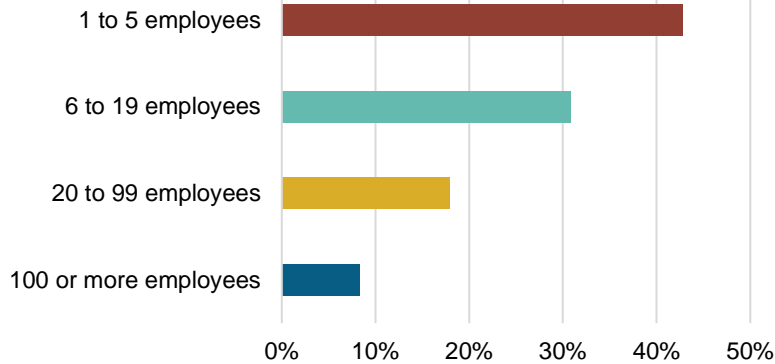
Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in New York?

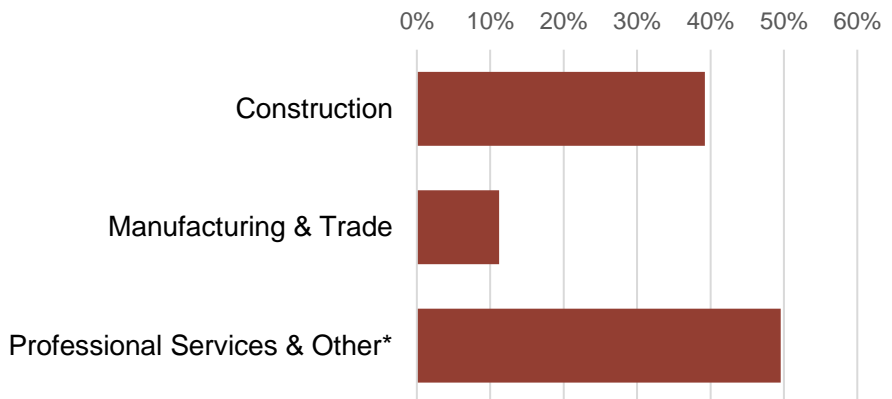
91.4% of NY EE Businesses Have Less Than 100 Employees



20,816
EE businesses in New York

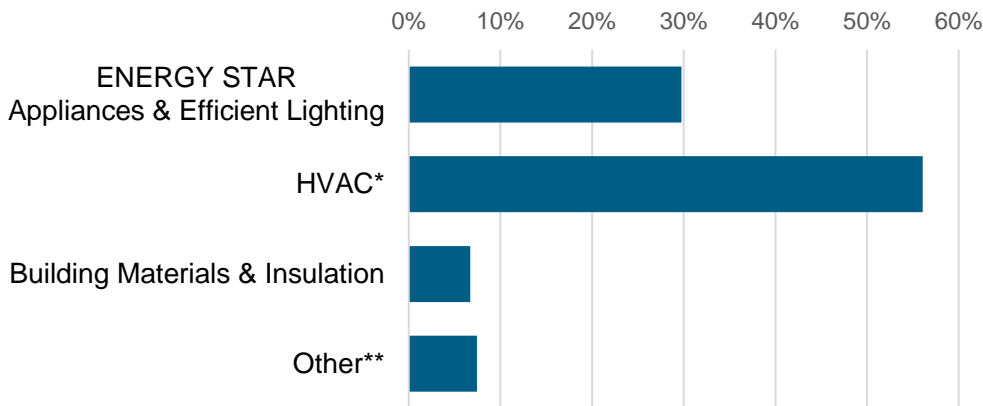
EE construction workers comprise **13%** of New York construction workers

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?



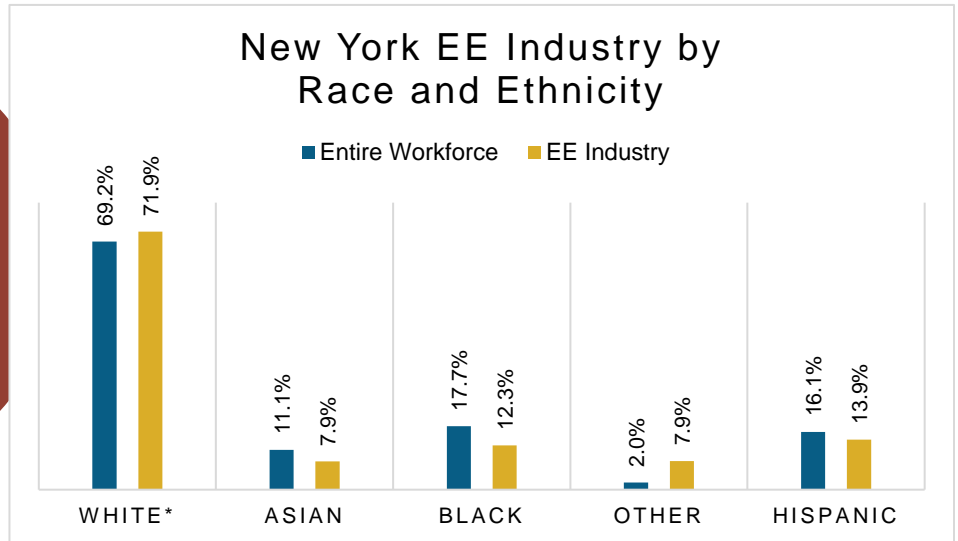
7% of New York EE workers are Veterans

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

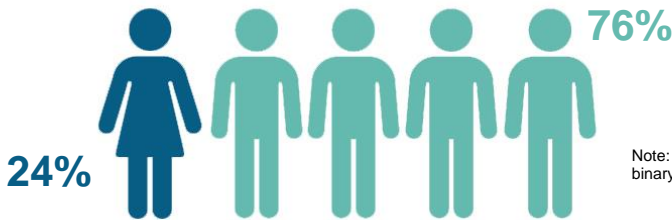
How is EE doing on diversity in New York?

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 New York 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.


New York's EE Potential

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

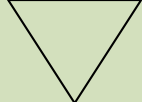
Weatherization Assistance Program:


4,586* units weatherized in 2018, out of ~**1,000,000** total low-income households

6,587,735 New York homes are due for energy tune-ups


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

Potential to **reduce** residential electricity consumption by

14%


*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	8,533	Albany-Schenectady-Troy	5,758
2	4,313	Binghamton	1,259
3	7,031	Buffalo-Niagara Falls	6,755
4	5,280	Elmira	446
5	1,574	Glens Falls	1,425
6	2,704	Ithaca	788
7	7,463	Kingston	1,239
8	1,868	New York-Northern New Jersey-Long Island	79,612
9	847	Poughkeepsie-Newburgh-Middletown	4,386
10	10,056	Rochester	6,413
11	2,175	Syracuse	4,022
12	11,019	Utica-Rome	1,426
13	789	Rural	7,432
14	1,551		
15	1,436		
16	3,293		
17	7,127		
18	5,171		
19	4,888		
20	5,441		
21	3,934		
22	3,576		
23	4,121		
24	4,864		
25	4,153		
26	5,113		
27	2,639		

State Senate							
District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	3,369	18	1,753	35	4,278	52	1,355
2	5,458	19	360	36	526	53	368
3	2,725	20	1,155	37	2,178	54	2,048
4	849	21	<5	38	2,465	55	1,798
5	3,166	22	377	39	2,300	56	2,333
6	4,468	23	1,240	40	2,114	57	1,692
7	2,041	24	748	41	1,806	58	973
8	1,052	25	824	42	1,889	59	2,915
9	1,053	26	6,235	43	3,117	60	2,284
10	1,264	27	14,414	44	2,675	61	1,001
11	1,888	28	1,087	45	2,345	62	1,120
12	2,442	29	1,215	46	1,579	63	206
13	671	30	537	47	1,850		
14	359	31	316	48	751		
15	304	32	1,214	49	738		
16	175	33	158	50	3,522		
17	3,075	34	978	51	1,763		

State Assembly

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	1,972	39	<5	77	549	115	837
2	798	40	<5	78	578	116	616
3	886	41	1,478	79	176	117	585
4	647	42	355	80	286	118	278
5	1,712	43	318	81	252	119	131
6	1,716	44	759	82	148	120	623
7	1,072	45	490	83	<5	121	494
8	976	46	374	84	732	122	1,230
9	1,596	47	<5	85	119	123	204
10	2,129	48	<5	86	<5	124	669
11	129	49	202	87	<5	125	971
12	45	50	997	88	2,123	126	818
13	3,289	51	435	89	789	127	1,051
14	987	52	1,032	90	527	128	1,445
15	435	53	305	91	1,388	129	101
16	2,218	54	435	92	1,993	130	1,383
17	153	55	98	93	1,292	131	1,141
18	1,664	56	<5	94	865	132	552
19	238	57	<5	95	331	133	983
20	1,031	58	236	96	2,224	134	1,170
21	534	59	<5	97	242	135	204
22	92	60	22	98	1,125	136	586
23	547	61	1,183	99	1,233	137	1,014
24	871	62	732	100	516	138	43
25	736	63	7	101	1,424	139	485
26	493	64	<5	102	1,165	140	868
27	1,072	65	5,789	103	1,193	141	1,783
28	505	66	915	104	662	142	973
29	422	67	3,021	105	642	143	1,429
30	1,676	68	456	106	368	144	611
31	37	69	8	107	1,349	145	464
32	<5	70	108	108	1,384	146	216
33	61	71	185	109	946	147	583
34	199	72	76	110	684	148	528
35	<5	73	7,684	111	437	149	106
36	323	74	759	112	1,557	150	726
37	15	75	4,003	113	1,102		
38	74	76	129	114	716		



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.