

# CLEAN JOBS MASSACHUSETTS

## 117,669 CLEAN ENERGY JOBS ACROSS MASSACHUSETTS<sup>1</sup>

### LEADING THE NORTHEAST CLEAN ENERGY TRANSITION

Massachusetts' clean energy economy is open for business. With nearly 120,000 jobs statewide in fields such as renewables, clean vehicles manufacturing, and energy efficiency, the Commonwealth's clean energy economy employs more than giants like Partners Healthcare (around 60,000 workers), the University of Massachusetts (25,000), and Stop & Shop (20,000).

Among all states, Massachusetts ranks seventh for clean jobs overall, fourth for renewables, seventh for energy efficiency, and fourth for smart grid and storage. From the state's leadership in the creation of the Regional Greenhouse Gas Initiative in 2007, to the Global Warming Solutions and Green Jobs Acts of 2008, Massachusetts has for years been a leader on climate action and smart energy policy, both in New England and nationally. That stewardship won't maintain itself, however, and Massachusetts is in danger of ceding its position as a leader on clean energy.

In 2018, Massachusetts tried and failed to pass legislation to increase energy storage funding, make access to solar energy more equitable for low-income residents, and set a significant increase for the state's RPS. Massachusetts can and should continue to lead on clean energy by moving beyond anemic growth rates for its RPS, making solar accessible to all its residents, investing in 21st-century energy storage infrastructure, and focusing on low-carbon transportation solutions.

### CLEAN ENERGY JOBS IN PERSPECTIVE

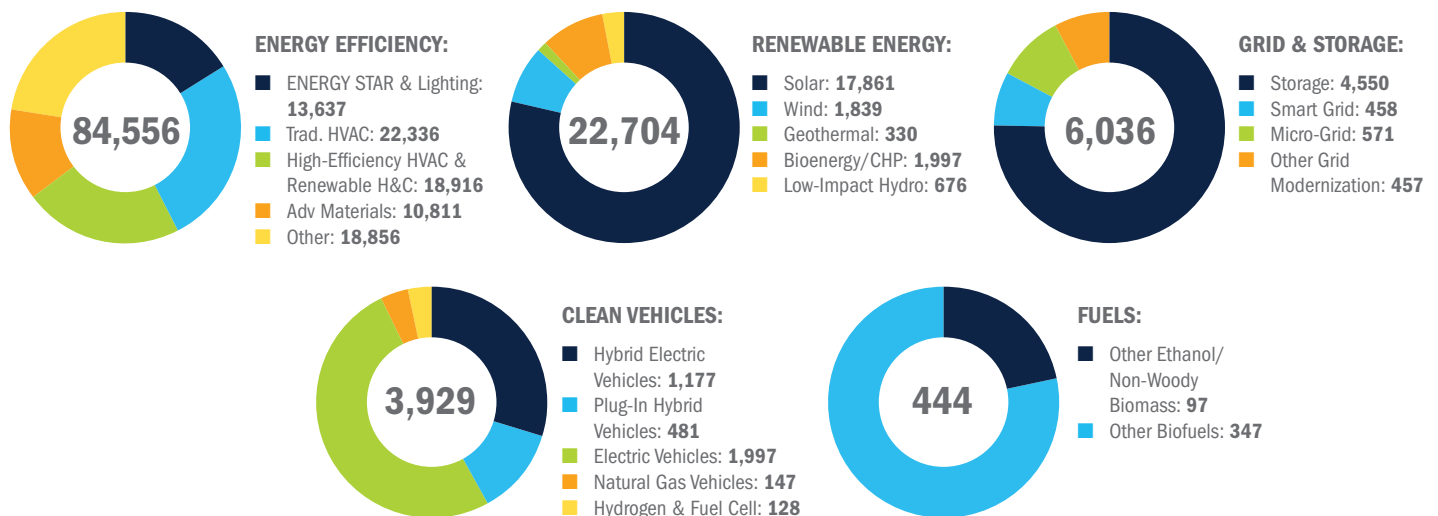
**TOP 5** Massachusetts ranks in the top five in six different clean energy job categories, including solar (no. 2), bio energy/combined heat and power (no. 5), low-impact hydropower (no. 5), energy storage (no. 4), and overall renewable energy jobs (no. 4).

**84,556** workers in Massachusetts are employed through energy efficiency, the sixth most in the U.S.

**11.5% VETERANS** More than 13,000 veterans work in clean energy industries, making up 11.5% of Massachusetts entire clean energy workforce

**No. 4** With over 88,480 jobs, the Boston metro area ranks fourth in the U.S. for clean energy jobs

### INDUSTRY BREAKDOWN: JOBS



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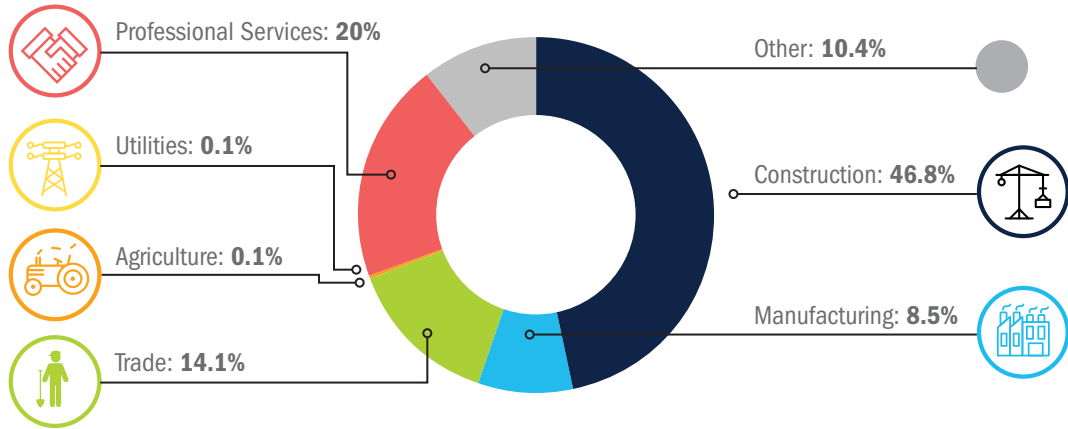
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For questions regarding this report, visit E2's Clean Jobs America FAQ at [www.e2.org/cleanjobsamerica/FAQ](http://www.e2.org/cleanjobsamerica/FAQ).

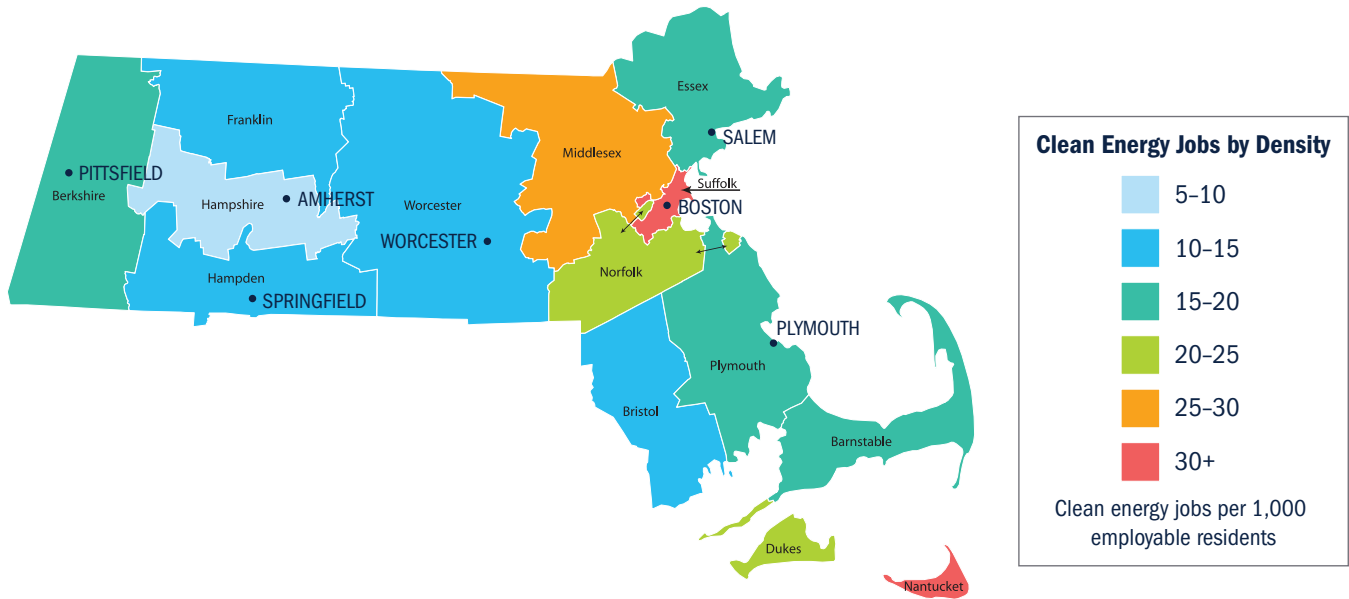


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**CLEAN JOBS BREAKDOWN BY VALUE CHAIN**



**MASSACHUSETTS CLEAN JOBS BY COUNTY<sup>2</sup>**



**BEYOND BEANTOWN:**  
CLEAN ENERGY JOBS FLOURISH THROUGHOUT THE BAY STATE

**29%** of Massachusetts clean energy jobs (34,000) are based outside the Boston metro area

**11/14 COUNTIES** support more than 10 clean energy workers per 1,000 residents, with three above 20 jobs per 1,000

**10,300** Every single Massachusetts Congressional District supports over 10,300 clean energy jobs

**TOP METROS FOR CLEAN ENERGY JOBS**

District	Clean Energy Jobs*	Renewable Energy Jobs	Energy Efficiency Jobs
Boston-Cambridge-Quincy	82,733	17,197	58,387
Worcester	10,026	1,426	7,642
Springfield	9,616	1,753	6,992
Providence-New Bedford-Fall River	7,095	1,073	5,364
Barnstable Town	5,164	835	3,855
Pittsfield	2,234	303	1,710

**800 BAY STATERS LOCATED IN RURAL AREAS WORK IN CLEAN ENERGY**

\* Total includes all clean energy jobs categories, including solar, wind, EE, clean vehicles, battery storage, advanced biofuels, low-impact hydro and other areas

## TOP LAWMAKER DISTRICTS FOR CLEAN ENERGY JOBS

Data shows that distribution of clean energy jobs in Massachusetts crosses all political boundaries, with clean energy jobs in every congressional district and across 150 state legislative districts.

### U.S. CONGRESSIONAL DISTRICT

District	Clean Energy Jobs	Renewable Energy Jobs	Energy Efficiency Jobs
1. Neal	10,375	1,915	7,517
2. McGovern	10,674	1,503	8,156
3. Trahan	13,894	4,233	8,644
4. Kennedy III	14,864	2,868	10,686
5. Clark	14,088	2,813	10,049

District	Clean Energy Jobs	Renewable Energy Jobs	Energy Efficiency Jobs
6. Moulton	14,455	2,564	10,567
7. Pressley	12,302	2,203	8,995
8. Lynch	15,060	2,769	10,937
9. Keating	11,956	1,834	9,005

### STATE SENATE DISTRICTS

District	Rep.	Clean Energy Jobs
Berkshire, Hampshire, Franklin & Hampden	Sen. Hinds	3,686
Bristol and Norfolk	Sen. Feeney	3,448
1st Bristol and Plymouth	Sen. Rodrigues	2,961
2nd Bristol and Plymouth	Sen. Montigny	2,875
Cape and Islands	Sen. Andre Cyr	1,374
1st Essex	Sen. DiZoglio	2,549
2nd Essex	Sen. Lovely	1,568
3rd Essex	Sen. Crighton	1,730
1st Essex and Middlesex	Sen. Tarr	1,843
2nd Essex and Middlesex	Sen. Finegold	3,381
Hampden	Sen. Welch	1,512
1st Hampden and Hampshire	Sen. Lesser	1,338
2nd Hampden and Hampshire	Sen. Humason Jr.	2,625
Hampshire, Franklin and Worcester	Sen. Comerford	5,381
1st Middlesex	Sen. Kennedy	4,175
2nd Middlesex	Sen. Jehlen	4,877
3rd Middlesex	Sen. Barrett	3,623
4th Middlesex	Sen. Friedman	4,442
5th Middlesex	Sen. Lewis	3,279
1st Middlesex and Norfolk	Sen. Creem	3,300

District	Rep.	Clean Energy Jobs
2nd Middlesex and Norfolk	Sen. Spilka	4,059
Middlesex and Suffolk	Sen. DiDomenico	1,344
Middlesex and Worcester	Sen. Eldridge	4,829
Norfolk, Bristol and Middlesex	Sen. Rausch	2,193
Norfolk, Bristol and Plymouth	Sen. Timilty	1,861
Norfolk and Plymouth	Sen. Keenan	4,120
Norfolk and Suffolk	Sen. Rush	7,435
Plymouth and Barnstable	Sen. deMacedo	911
1st Plymouth and Bristol	Sen. Pacheco	2,504
2nd Plymouth and Bristol	Sen. Brady	1,870
Plymouth and Norfolk	Sen. O'Connor	2,314
1st Suffolk	Sen. Collins	3,696
2nd Suffolk	Sen. Chang-Diaz	2,493
1st Suffolk and Middlesex	Sen. Boncore	2,496
2nd Suffolk and Middlesex	Sen. Brownsberger	1,625
1st Worcester	Sen. Chandler	2,979
2nd Worcester	Sen. Moore	2,076
Worcester, Hampden, Hampshire and Middlesex	Sen. Gobi	1,739
Worcester and Middlesex	Sen. Tran	3,297
Worcester and Norfolk	Sen. Fattman	3,865

# CLEAN JOBS MASSACHUSETTS

## STATE HOUSE DISTRICTS

District	Rep.	Clean Energy Jobs
1st Barnstable	Rep. Whelan	2,025
2nd Barnstable	Rep. Crocker Jr.	349
3rd Barnstable	Rep. Viera	1,058
4th Barnstable	Rep. Peake	690
5th Barnstable	Rep. Hunt	1,322
1st Berkshire	Rep. Barrett III	1,317
2nd Berkshire	Rep. Mark	838
3rd Berkshire	Rep. Farley-Bouvier	<100
4th Berkshire	Rep. Pitnatelli	793
1st Bristol	Rep. Barrows	1,022
2nd Bristol	Rep. Hawkins	512
3rd Bristol	Rep. O'Connell	1,309
4th Bristol	Rep. Howitt	589
5th Bristol	Rep. Haddad	172
6th Bristol	Rep. Fiola	1,353
7th Bristol	Rep. Silvia	<100
8th Bristol	Rep. Schmid	716
9th Bristol	Rep. Markey	805
10th Bristol	Rep. Straus	593
11th Bristol	Rep. Hendricks	<100
12th Bristol	Rep. Orrall	674
13th Bristol	Rep. Cabral	<100
14th Bristol	Rep. Poirier	370
1st Essex	Rep. Kelcourse	1,097
2nd Essex	Rep. Mirra	1,324
3rd Essex	Rep. Vargas	177
4th Essex	Rep. Hill	557
5th Essex	Rep. Ferrante	867
6th Essex	Rep. Parisella	852
7th Essex	Rep. Tucker	1,258
8th Essex	Rep. Ehrlich	598
9th Essex	Rep. Wong	1,660
10th Essex	Rep. Cahill	181
11th Essex	Rep. Capano	<100
12th Essex	Rep. Walsh	973
13th Essex	Rep. Speliotis	900
14th Essex	Rep. Minicucci	2,810
15th Essex	Rep. Campbell	<100
16th Essex	Rep. Devers	194
17th Essex	Rep. Moran	1,355
1st Franklin	Rep. Whipps	913
2nd Franklin	Rep. Blais	658
1st Hampden	Rep. Smola	931
2nd Hampden	Rep. Ashe	645
3rd Hampden	Rep. Boldyga	505

District	Rep.	Clean Energy Jobs
4th Hampden	Rep. Velis	482
5th Hampden	Rep. Vega	328
6th Hampden	Rep. Finn	1,190
7th Hampden	Rep. Petrolati	508
8th Hampden	Rep. Wagner	133
9th Hampden	Rep. Tosado	232
10th Hampden	Rap. Gonzalez	1,298
11th Hampden	Rep. Williams	<100
12th Hampden	Rep. Puppolo	<100
18th Essex	Rep. Nguyen	336
1st Hampshire	Rep. Sabadosa	1,136
2nd Hampshire	Rep. Carey	377
3rd Hampshire	Rep. Domb	<100
1st Middlesex	Rep. Harrington	730
2nd Middlesex	Rep. Arciero	1,910
3rd Middlesex	Rep. Hogan	746
4th Middlesex	Rep. Gregoire	2,360
5th Middlesex	Rep. Linsky	1,625
6th Middlesex	Rep. Robinson	915
7th Middlesex	Rep. Lewis	343
8th Middlesex	Rep. Dykema	1,238
9th Middlesex	Rep. Stanley	2,173
10th Middlesex	Rep. Lawn	1,101
11th Middlesex	Rep. Khan	1,332
12th Middlesex	Rep. Balser	134
13th Middlesex	Rep. Gentile	385
14th Middlesex	Rep. Gouveia	1,384
15th Middlesex	Rep. Ciccolo	2,549
16th Middlesex	Rep. Golden Jr.	794
17th Middlesex	Rep. Nangle	723
18th Middlesex	Rep. Mom	<100
19th Middlesex	Rep. Robertson	1,112
20th Middlesex	Rep. Jones. Jr	799
21st Middlesex	Rep. Gordon	1,275
22nd Middlesex	Rep. Lombardo	501
23rd Middlesex	Rep. Garballey	1,023
24th Middlesex	Rep. Rogers	1,507
25th Middlesex	Rep. Decker	821
26th Middlesex	Rep. Connolly	1,274
27th Middlesex	Rep. Provost	245
28th Middlesex	Rep. McGonagle	823
29th Middlesex	Rep. Hecht	<100
30th Middlesex	Rep. Haggerty	270
31st Middlesex	Rep. Day	319
32nd Middlesex	Rep. Brodeur	241

## CLEAN JOBS MASSACHUSETTS

### STATE HOUSE DISTRICTS CONTINUED

District	Rep.	Clean Energy Jobs
33rd Middlesex	Rep. Ultrino	<100
34th Middlesex	Rep. Barber	<100
35th Middlesex	Rep. Donato	<100
36th Middlesex	Rep. Garry	597
37th Middlesex	Rep. Benson	733
1st Worcester	Rep. Ferguson	414
Barnstable, Dukes & Nantucket	Rep. Fernandes	1,667
1st Norfolk	Rep. Ayers	2,146
2nd Norfolk	Rep. Chan	<100
3rd Norfolk	Rep. Mariano	733
4th Norfolk	Rep. Murphy	712
5th Norfolk	Rep. Cusack	728
6th Norfolk	Rep. Galvin	1,400
7th Norfolk	Rep. Driscoll Jr.	<100
8th Norfolk	Rep. Kafka	602
9th Norfolk	Rep. Dooley	883
10th Norfolk	Rep. Roy	764
11th Norfolk	Rep. McMurty	1,007
12th Norfolk	Rep. Rogers	571
13th Norfolk	Rep. Garlick	910
14th Norfolk	Rep. Peisch	1,297
15th Norfolk	Rep. Vitolo	675
1st Plymouth	Rep. Muratore	<100
2nd Plymouth	Rep. Gifford	487
3rd Plymouth	Rep. Meschino	546
4th Plymouth	Rep. Kearney	401
5th Plymouth	Rep. DeCoste	1,182
6th Plymouth	Rep. Cutler	554
7th Plymouth	Rep. Sullivan	471
8th Plymouth	Rep. D'Emilia	404
9th Plymouth	Rep. Cassidy	867
10th Plymouth	Rep. DuBois	247
11th Plymouth	Rep. Cronin	<100
12th Plymouth	Rep. LaNatra	310
1st Suffolk	Rep. Madaro	547

District	Rep.	Clean Energy Jobs
2nd Suffolk	Rep. Ryan	669
3rd Suffolk	Rep. Michlewitz	11,898
4th Suffolk	Rep. Biele	1,023
5th Suffolk	Rep. Miranda	524
6th Suffolk	Rep. Holmes	879
7th Suffolk	Rep. Tyler	330
8th Suffolk	Rep. Livingstone	<100
9th Suffolk	Rep. Santiago	306
10th Suffolk	Rep. Coppinger	201
11th Suffolk	Rep. Malia	<100
12th Suffolk	Rep. Cullinane	<100
13th Suffolk	Rep. Hunt	<100
14th Suffolk	Rep. Scaccia	<100
15th Suffolk	Rep. Elugardo	<100
16th Suffolk	Rep. Vincent	<100
17th Suffolk	Rep. Honan	590
18th Suffolk	Rep. Moran	<100
19th Suffolk	Rep. DeLeo	<100
2nd Worcester	Rep. Zlotnik	471
3rd Worcester	Rep. Hay	184
4th Worcester	Rep. Higgins	<100
5th Worcester	Rep. Berthiaume	678
6th Worcester	Rep. Durant	279
7th Worcester	Rep. Frost	415
8th Worcester	Rep. Soter	906
9th Worcester	Rep. Muradian	673
10th Worcester	Rep. Murray	827
11th Worcester	Rep. Kane	132
12th Worcester	Rep. Naughton Jr.	406
13th Worcester	Rep. Mahoney	443
14th Worcester	Rep. O'Day	958
15th Worcester	Rep. Keefe	144
16th Worcester	Rep. Donahue	816
17th Worcester	Rep. LeBoeuf	168
18th Worcester	Rep. McKenna	<100

#### ENDNOTES

- 1 Unless otherwise stated, all data is from the 2018 U.S. Energy and Employment Report, May 2018, NASEO and E2. See Pages 15-17 for methodology questions. This fact sheet differs from previous reports released by E2 in Massachusetts as the methodology has been adjusted to more accurately count the number of clean energy workers in the state. For more questions regarding methodology, visit [www.e2.org/cleanjobsamerica/FAQ](http://www.e2.org/cleanjobsamerica/FAQ).
- 2 County population data based on 2017 estimates from the U.S. Census Bureau accessible at <https://factfinder.census.gov>.



E2 is a national, nonpartisan group of business leaders, investors and others who advocate for smart policies that are good for the environment and good for the economy.



Clean Jobs Count is a campaign to raise awareness of the economic importance of the clean economy. Visit [www.cleanjobscount.org](http://www.cleanjobscount.org) to join thousands of business leaders, workers and others to tell lawmakers and policymakers that clean jobs count.