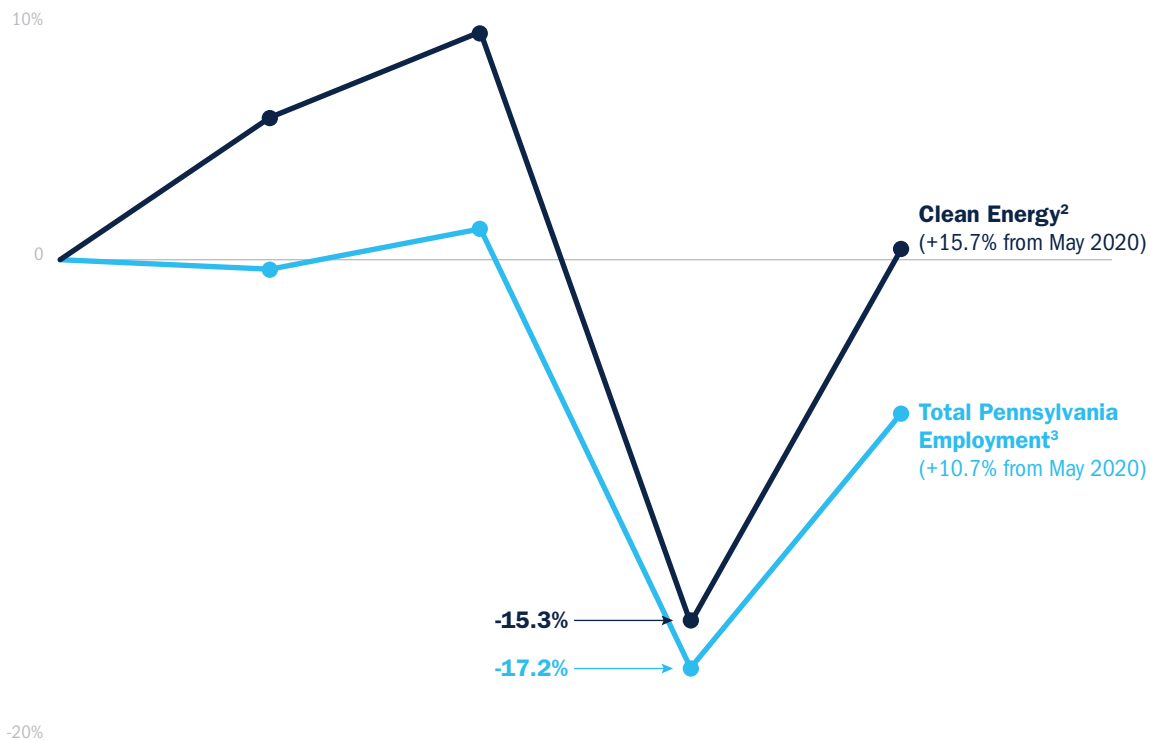


POWERING THE COVID-19 RECOVERY¹

The Commonwealth of Pennsylvania is one of the most significant producers of energy and employers of energy workers in the nation, and the Clean Energy economy accounts for a greater share of the workforce than ever. Since 2014, the number of clean energy jobs in the Commonwealth has grown by nearly 60 percent, employing over 87,000 Pennsylvanians in high quality, high-wage jobs. While the industry was not immune to the job losses associated with the COVID-19 pandemic, the Clean Energy sector proved more resilient than other sectors, and 2020 jobs data shows a strong rebound.

FIG. 1 // PENNSYLVANIA EMPLOYMENT GROWTH 2017 – 2020



Pre-Pandemic, Pennsylvania’s clean energy growth rate was expected to be 5.4% despite public funds doubling down on traditional fossil fuels infrastructure. But even with limited policy support, Pennsylvania’s clean energy sector grew nearly 7% relative to statewide employment in the last 6 months of 2020.

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For questions regarding this report, visit E2’s report FAQ at
<https://www.e2.org/reports/clean-jobs-america-faq>

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KEY FINDINGS

53%

Clean energy jobs are in smaller metropolitan and rural areas (i.e., outside of Philadelphia and Pittsburgh Metro Areas)

2 in 3

Clean energy jobs are small business jobs

45%

Clean energy jobs are construction jobs

7.3%

Faster growth rate in Clean Vehicle jobs compared to statewide employment

9.8%

Pennsylvania clean energy workers are military veterans

FIG. 2 // PENNSYLVANIA CLEAN ENERGY JOBS by sector 2020

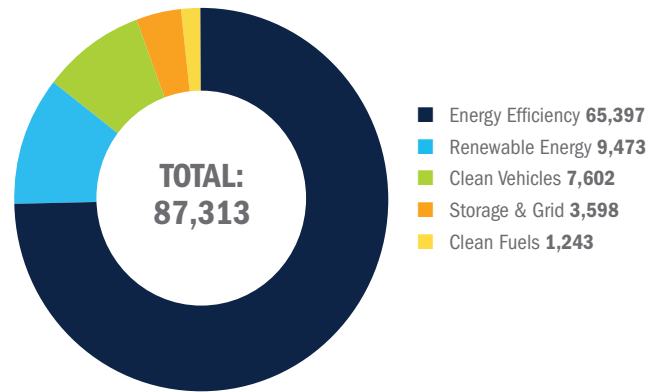


FIG. 3 // PENNSYLVANIA CLEAN ENERGY EMPLOYMENT by subsector 2020

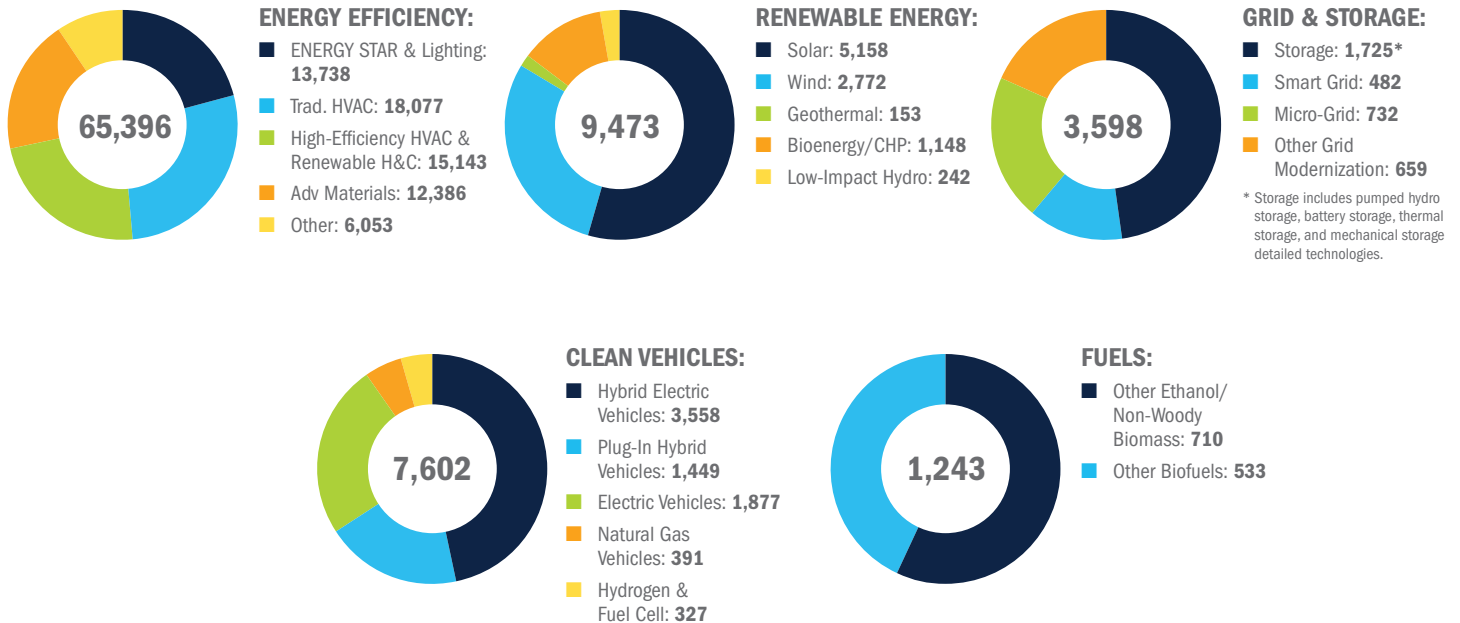
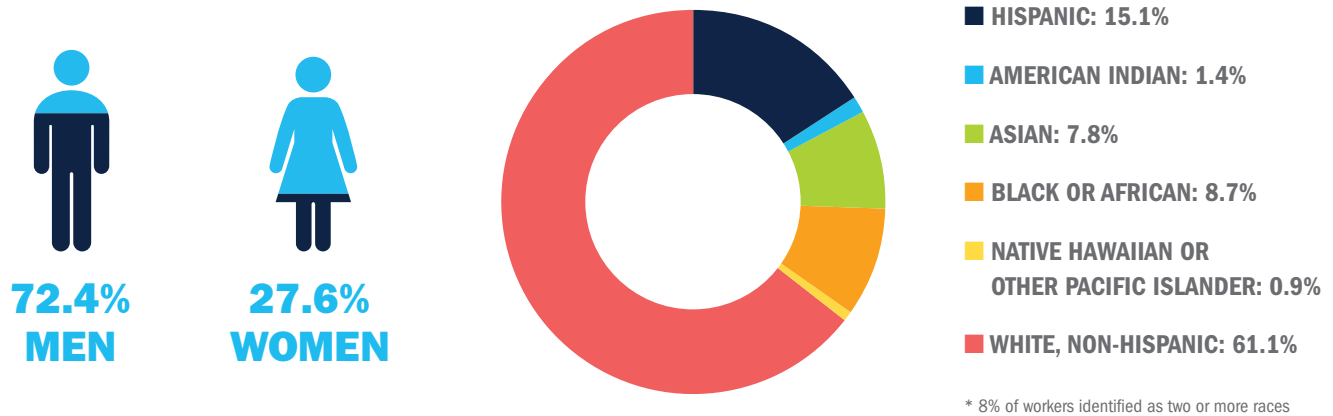


FIG. 4 // PENNSYLVANIA'S CLEAN ENERGY WORKFORCE DEMOGRAPHICS 2020

About 1 in 3 clean energy workers in Pennsylvania were of non-white or Hispanic ethnicity



Pennsylvania is known as a major fossil fuel producer, but the Commonwealth was also ranked 11 for clean energy employment nationwide. With more robust investment in the clean energy economy, the state could create thousands more high-quality, high-paying jobs for Pennsylvanians, generate new revenues for state and local government and businesses and improve the health and safety of frontline communities across the Commonwealth.

TABLE 1 // PENNSYLVANIA CLEAN ENERGY JOBS BY METRO AREA 2020

Metro	Clean Energy Jobs
Allentown-Bethlehem-Easton, PA-NJ MSA	4,174
Altoona, PA MSA	795
Erie, PA MSA	1,607
Harrisburg-Carlisle, PA MSA	3,549
Johnstown, PA MSA	583
Lancaster, PA MSA	3,793
Lebanon, PA MSA	739
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA	28,255
Pittsburgh, PA MSA	16,871
Reading, PA MSA	4,236
Scranton--Wilkes-Barre, PA MSA	3,493
State College, PA MSA	849
Williamsport, PA MSA	759
York-Hanover, PA MSA	2,316
Youngstown-Warren-Boardman, OH-PA MSA	505
<i>Non-Metropolitan Areas/Rural PA</i>	10,498

TABLE 1 // PENNSYLVANIA CLEAN ENERGY JOBS BY COUNTY 2020⁴

County Name	Renewable Energy Jobs	Energy Efficiency Jobs	Total Clean Energy Jobs
Adams County	112	245	437
Allegheny County	1,590	8,961	11,724
Armstrong County	13	107	149
Beaver County	315	371	811
Bedford County	9	173	228
Berks County	949	1,593	3,039
Blair County	36	502	708
Bradford County	6	127	172
Bucks County	607	3,388	4,725
Butler County	89	1,041	1,353
Cambria County	39	402	533
Cameron County	1	7	9
Carbon County	25	92	222
Centre County	141	678	929
Chester County	344	3,357	4,375
Clarion County	17	88	143
Clearfield County	17	168	264
Clinton County	18	103	198
Columbia County	28	181	255
Crawford County	45	152	253
Cumberland County	107	1,261	1,639
Dauphin County	291	1,400	1,995
Delaware County	284	2,291	2,997
Elk County	3	90	112
Erie County	161	1,000	1,424
Fayette County	22	281	423
Forest County	0	9	10
Franklin County	21	455	598
Fulton County	6	30	54
Greene County	6	163	209
Huntingdon County	11	88	126
Indiana County	26	240	333
Jefferson County	308	129	468
Juniata County	4	42	59
Lackawanna County	75	765	1,116
Lancaster County	593	2,974	4,130
Lawrence County	21	332	400
Lebanon County	53	369	553
Lehigh County	128	6,349	7,001
Luzerne County	98	1,065	1,338
Lycoming County	40	473	632
McKean County	8	108	133
Mercer County	13	323	441
Mifflin County	7	87	124
Monroe County	18	306	403
Montgomery County	828	6,497	8,383

County Name	Renewable Energy Jobs	Energy Efficiency Jobs	Total Clean Energy Jobs
Montour County	4	42	95
Northampton County	46	937	1,153
Northumberland County	29	208	363
Perry County	5	77	113
Philadelphia County	737	6,875	8,481
Pike County	14	65	95
Potter County	3	20	54
Schuylkill County	58	335	499
Snyder County	9	134	188
Somerset County	21	234	368
Sullivan County	7	13	21
Susquehanna County	7	82	104
Tioga County	10	119	212
Union County	50	94	164
Venango County	10	104	146
Warren County	6	53	88
Washington County	49	1,079	1,320
Wayne County	8	178	208
Westmoreland County	230	1,497	2,004
Wyoming County	9	71	103
York County	501	2,227	3,291

About E2

E2 E2 is a national, nonpartisan group of business leaders, investors and other professionals who advocate for smart policies that are good for the environment and good for the economy. With nine chapters working at the state, local and federal levels across the country, E2's 11,000 members and supporters bring the business case for climate action. Collectively, E2 members have founded or funded more than 2,500 companies, created more than 600,000 jobs, and managed more than \$100 billion in venture and private equity capital.

About the Data

This factsheet is based on employment data collected and analyzed by the BW Research Partnership for the 2021 U.S. Energy and Employment Report (USEER). The USEER analyzes data from the U.S. Bureau of Labor Statistics (BLS) Quarterly Census of Employment and Wages (QCEW) to track employment across many energy production, transmission, and distribution subsectors. In addition, the 2021 USEER relies on a unique supplemental survey of 35,000 business representatives across the United States.

For additional insight into E2's other annual clean energy economic reports, visit e2.org/reports.

ENDNOTES

- 1 Unless otherwise stated, all data is from the 2021 U.S. Energy and Employment Report (USEER), April 2021, Department of Energy (DOE).
- 2 Includes data from BW Research Partnership Memorandum "Clean Energy Employment Initial Impacts from the COVID-19 Economic Crisis, December 2020" Released January 13 2021.
- 3 "State and Area Employment, Hours and Earnings: Employed Pennsylvanians' in Non-Farm Industries," Bureau of Labor Statistics (BLS), https://data.bls.gov/timeseries/SMS4200000000000001?amp%253bdata_tool=XGtable&output_view=data&include_graphs=true(Accessed January 2022).
- 4 An additional 2,613 clean energy jobs are in unknown or undefined counties



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