Good for the Economy. Good for the Environment.

Clean Jobs Midwest

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What is E2?

Good for the Economy. Good for the Environment.

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



What is E2?

RESEARCH & REPORTS



COMMUNICATIONS



ADVOCACY





What I'll Cover

- Where the data comes from
- What is a Clean Energy Job?
- Where in the Midwest are the Clean Energy Jobs?
- Other important data about clean energy jobs
- The impact of the IRA





LEARN MORE AT CLEANJOBSMIDWEST.COM





Data Source: United States Energy & Employment Report

2 main data sources:

- BLS Quarterly Census of Employment and Wages
 - Primary source for the QCEW is administrative data from state and unemployment insurance programs.
- USEER Survey

Taken together, the BLS and survey data provide the most comprehensive calculation of energy-related employment available.



Tracking 5 Sectors



ENERGY EFFICIENCY

Manufacturing and installation of energy-efficient appliances, materials, and technologies



RENEWABLE ENERGY GENERATION

Wind, solar, geothermal, bioenergy, and low-impact hydro



CLEAN TRANSPORTATION

Electric, hybridelectric, natural gas fuel cell, and hydrogen vehicles



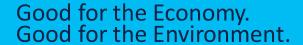
GRID & STORAGE

Battery storage, grid modernization, and smart-grid technology



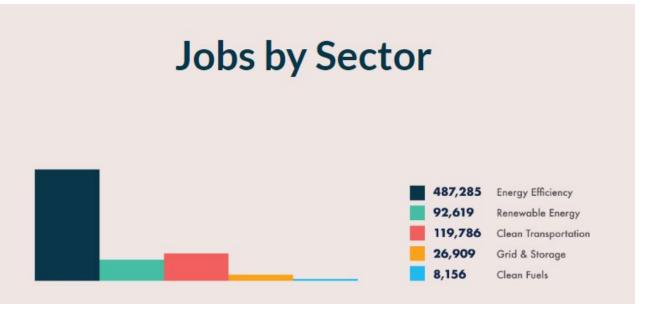
CLEAN FUELS

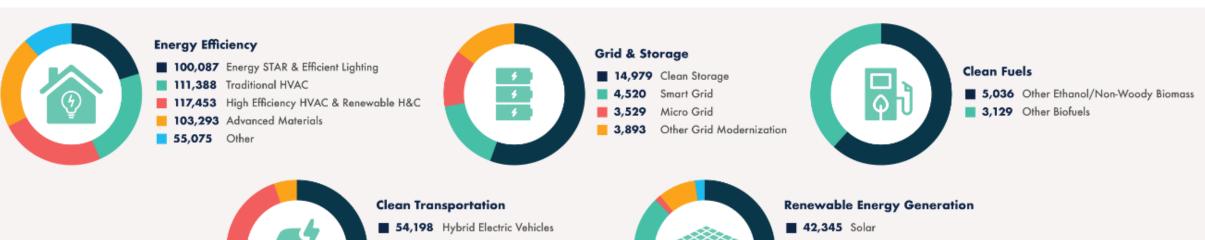
Advanced, low-carbon fuels made from agricultural waste, used cooking oil, algae, etc.



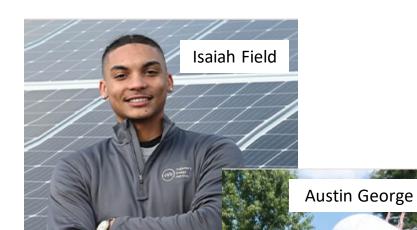








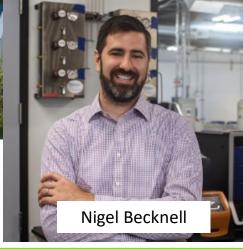




What is a Clean Energy Job?





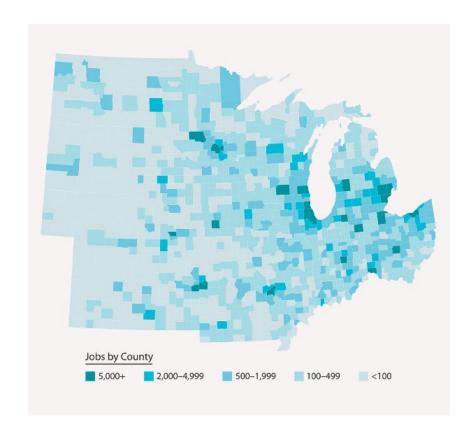


Read more stories from the field at CleanJobsMidwest.com

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Clean Energy Jobs By State



State	Total Clean Energy Jobs	
Michigan	123,983	
Illinois	123,799	
Ohio	114,395	
Indiana	88,412	
Wisconsin	71,489	
Minnesota	59,708	
Missouri	56,503	
lowa	31,288	
Kansas	24,823	
Nebraska	19,483	
South Dakota	12,003	
North Dakota	8,867	



Other Key Findings

- 3 percent increase from 2021, growing 50% faster than the region's overall economy.
- 11.2% growth in clean vehicle sector
- Big cities like Chicago (85,415), Detroit (66,586), and Minneapolis (38,362) were some of the largest hubs. More than one in five — or more than 147,000 — jobs are in rural areas.
- 70 percent of the state's clean energy businesses employ fewer than 20 individuals



CLEAN JOBS, BETTER JOBS

An examination of clean energy job wages and benefits







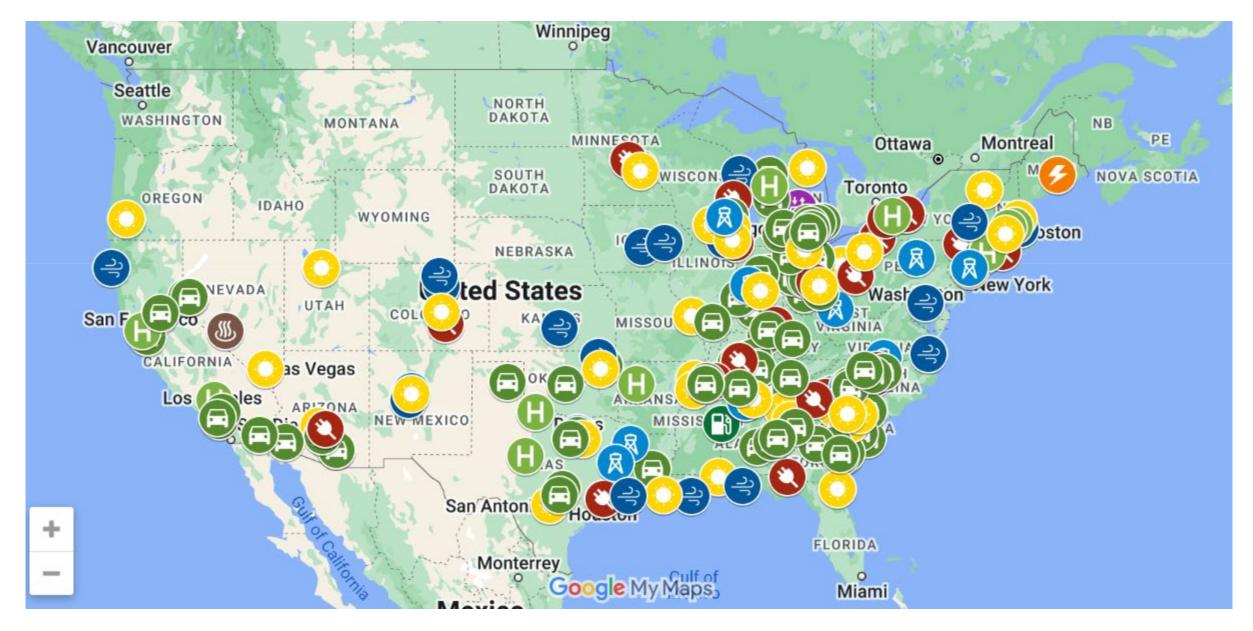






	2019 Median Hourly Wages ⁸	% Above or Below the National Median
U.S. TOTAL	\$19.14	-
CLEAN ENERGY INDUSTRIES OVERALL	\$23.89	25%
Renewable Energy Generation*	\$23.44	22%
Solar	\$24.48	28%
Wind	\$25.95	36%
Energy Efficiency	\$24.44	28%
ENERGY STAR Appliances	\$24.63	29%
Renewable Heating & Cooling	\$24.91	30%
Efficient Lighting	\$24.21	26%
Traditional & High-Efficiency HVAC	\$24.43	28%
Grid Modernization & Storage	\$25.07	31%
Grid Modernization	\$25.40	33%
Storage	\$24.82	30%
Clean Fuels (Advanced Biofuels)	\$19.55	2%
Clean Vehicles	\$22.20	16%

The IRA is Changing the Game



Tracking the impact of the IRA

Since IRA Passed

Announcements

251 New Projects

Where

40 States

<u>Investing</u>

\$ 108,697,700,000

Creating

90,998 Jobs

\$106.4 BILLION in total private capital investments
+ \$11.3 BILLION in <u>annual</u> investments during the operational life of projects

\$110.5 BILLION in labor income during construction phase
+ \$8.4 BILLION in labor income annually during the operational life of projects

\$155.5 BILLION added to U.S. GDP during construction phase
+ \$13.1 BILLION added to U.S. GDP <u>annually</u> during the operational life of projects

\$32.5 BILLION in tax revenue generated during construction phase + \$2.9 BILLION in tax revenue generated <u>annually</u> during the operational life of projects

303,500 JOBS each year for 5 years during construction phase + 99,600 JOBS supported <u>annually</u> during the operational life of projects

Key Takeaways

- More than four times as many Midwesterners worked in clean energy than the number of lawyers, web developers, and real estate agents in the region combined.
- Clean energy jobs are poised for growth like never before.



