

Missouri Clean Energy & Transportation Jobs Are Growing

Missouri's clean energy and clean transportation jobs grew nearly 5 percent in 2022 and the industry is poised for continued growth thanks to federal climate investments passed last year.

QUICK FACTS

56,503

Clean energy jobs

+14.4%

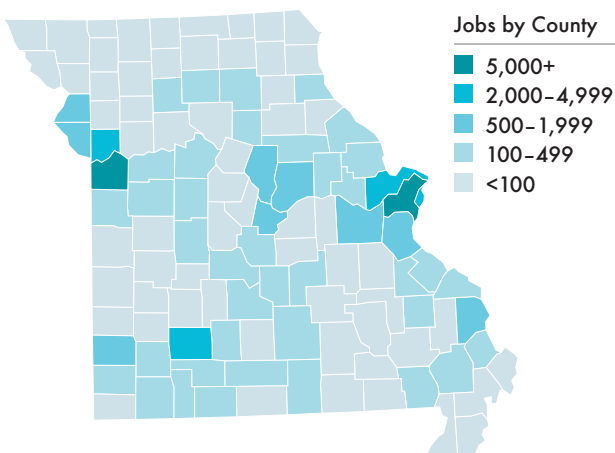
Growth of jobs in the clean transportation sector, the state's fastest-growing sector in 2022

+4.5%

Growth in clean energy jobs in 2022

Clean energy companies employed more than 56,000 Missourians at the end of 2022, a nearly 5 percent increase from 2021. Clean energy is a significant part of Missouri's economy. In fact, more than 3 times as many Missourians worked in clean energy than the number of lawyers, web developers, and real estate agents combined. In 2022, clean energy jobs grew almost twice as fast as the overall economy, and this growth is expected to continue as federal clean energy and vehicle incentives lead to new clean energy projects, a resurgence of domestic manufacturing, and lower upfront costs for homeowners to make energy efficiency improvements.

Clean Energy Jobs* in Missouri



*Visualization based on 2021 data

The biggest sector in Missouri's clean energy industry is energy efficiency, comprising 70 percent of the state's clean energy workforce. The 39,554 energy efficiency workers in Missouri manufacture ENERGY STAR-rated appliances, install efficient lighting, ventilation, and air conditioning (HVAC) systems, and install advanced building materials in homes and commercial buildings.

As more automakers and their suppliers continued to shift to electric vehicles, the clean transportation sector saw an increase in employment of over 14 percent in Missouri. The sector added over 1,000 new jobs for a total of 8,128 workers. Electric vehicle-related jobs accounted for most of the sector's growth.

Renewable energy jobs in solar (7% growth), wind (6% growth), and geothermal (16% growth) continue to see gains throughout the state while smaller, emerging subsectors like battery storage technologies (12% growth) and grid modernization (11% growth) are also continuing to grow.

Clean energy jobs are found in every corner of the state. While big cities like St. Louis (22,265), Kansas City (13,953), and Springfield (4,026) are some of the largest hubs for clean energy jobs, almost one in five — or more than 10,000 — jobs are in rural areas.

69.3%

Small businesses drive Missouri's clean energy sector — in 2022, 69.3 percent of the state's clean energy businesses employed fewer than 20 individuals

10.3%

More than 10 percent of Missouri's clean energy workers were veterans in 2022

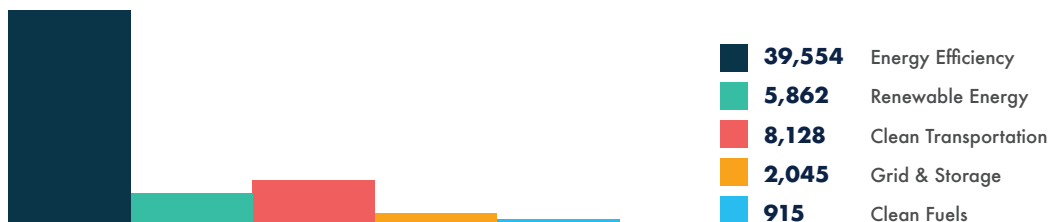


POLICIES MATTER

While recent federal policies, including investments and tax credits for energy efficiency upgrades, EV and solar purchases and new clean energy projects create strong tailwinds, there is still more to do. To meet the nation's climate goals of reducing climate emissions by 50 percent by 2030, improve equity in the clean energy economy and grow clean energy jobs, lawmakers and policymakers should:

- **Defend against attempts to roll back federal clean energy and vehicle investments:** Just one year after the passage of the Inflation Reduction Act, companies are investing over \$86 billion in large scale clean energy projects that will lead to the creation of over 74,000 jobs, thanks to the federal investments and incentives in the new law. Of the 210 projects announced, almost a quarter are in Midwestern states. Attempts to rollback provisions of the federal clean energy incentives threaten future clean energy job growth and economic opportunity.
- **Develop and fund federal and state workforce development programs.** One of the largest barriers to clean energy job growth is the challenge to fill open positions. Workforce training will be critical to the continued growth of the industry, as over 87 percent of employers in Missouri report at least some difficulty hiring workers.
- **Expand transmission to increase access for clean energy projects.** Federal and state governments must work with the Midwest regional transmission organizations to build more transmission. Without more transmission, many wind and solar projects will not be built.
- **Advance state-level clean energy policies.** It will be important for Missouri to adopt state policies that support renewable energy, energy efficiency and electric vehicles to leverage federal investment and help create thousands of new jobs.

JOBS BY SECTOR

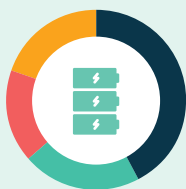


2022 SUBSECTOR DETAILS



Energy Efficiency

5,619	Energy STAR & Efficient Lighting
20,244	Traditional HVAC
10,160	High Efficiency HVAC & Renewable H&C
2,018	Advanced Materials
1,514	Other



Grid & Storage

868	Clean Storage
435	Smart Grid
343	Micro Grid
399	Other Grid Modernization



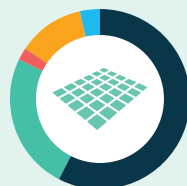
Clean Fuels

695	Other Ethanol/Non-Woody Biomass
220	Other Biofuels



Clean Transportation

3,676	Hybrid Electric Vehicles
1,700	Plug-In Hybrid Vehicles
2,323	Electric Vehicles
428	Hydrogen and Fuel-Cell Vehicles



Renewable Energy Generation

3,384	Solar
1,440	Wind
128	Geothermal
704	Bioenergy/CHP
206	Low-Impact Hydroelectric

Unless otherwise stated, the data and analyses presented in this report by Evergreen Climate Innovations and Environmental Entrepreneurs (E2) are based on data collected for the 2023 U.S. Energy Employment Report (2023 USEER), produced by the United States Department of Energy (DOE) and collected and analyzed by BW Research Partnership (BWRP).