

Illinois

Energy Efficiency Jobs in America

June 2021*

81,069

Dec 2020

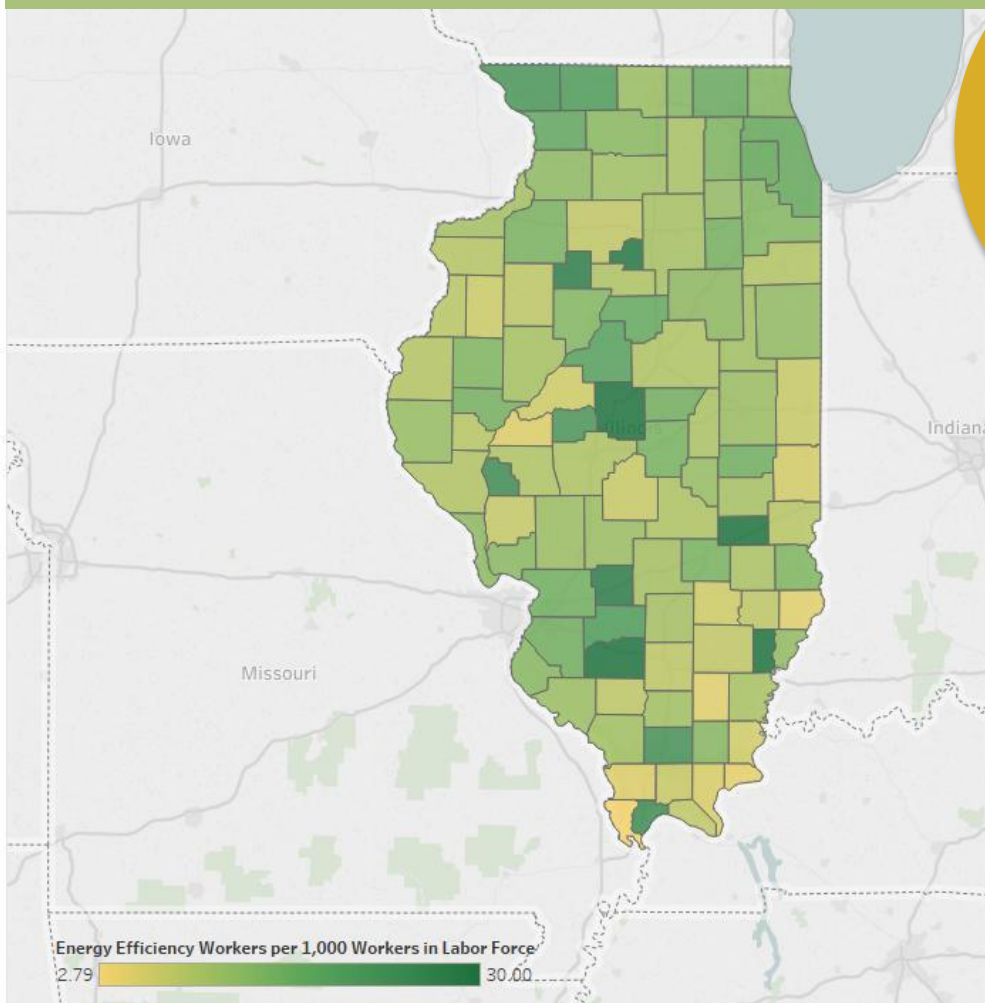
80,671

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

~71,500
new EE construction
jobs to retrofit Illinois
homes by 2030



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

Source: E4TheFuture/BW Research retrofit analysis, July 2021

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

Presented by:



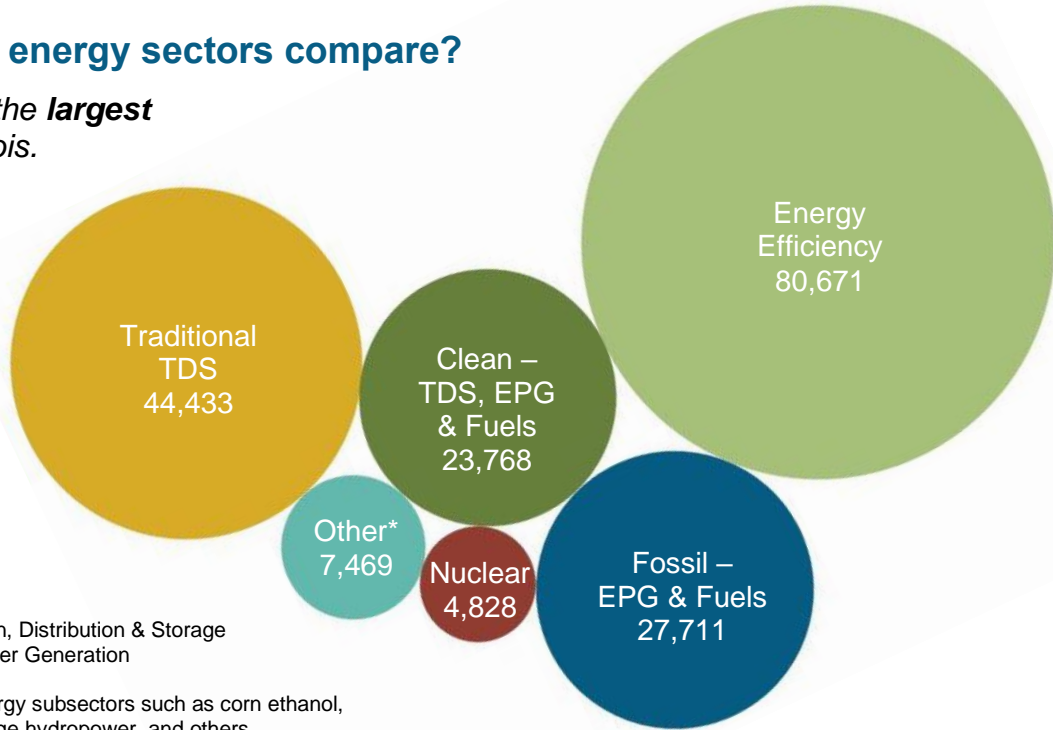
Key EE Statistics for Illinois

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 Illinois's energy sectors compare?

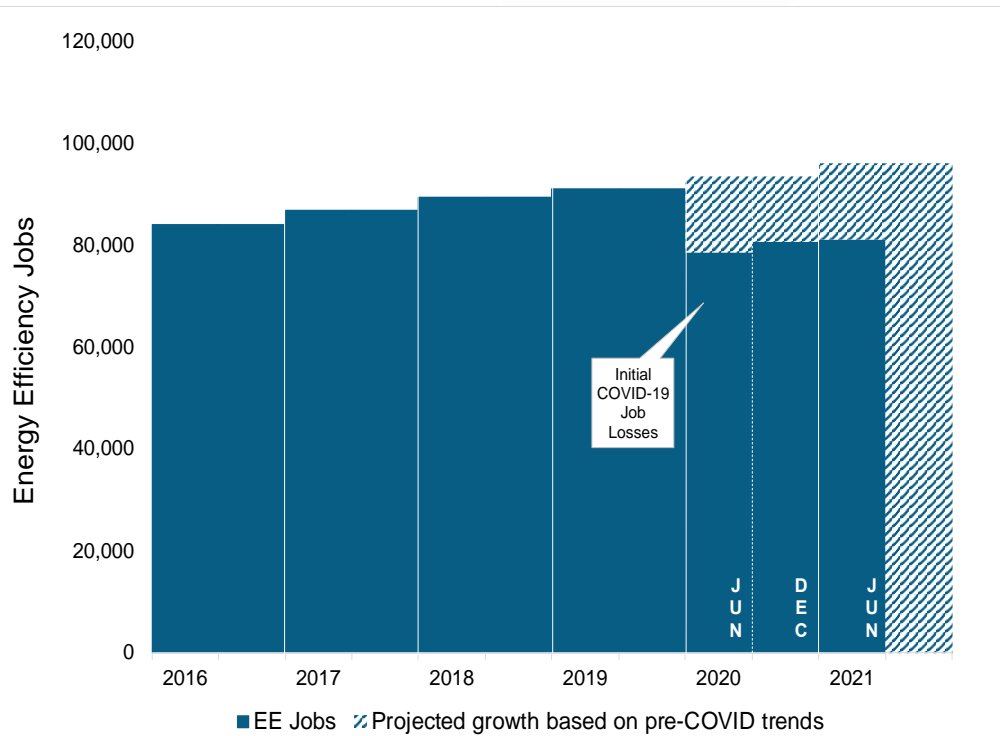
Energy Efficiency is the **largest** energy sector in Illinois.



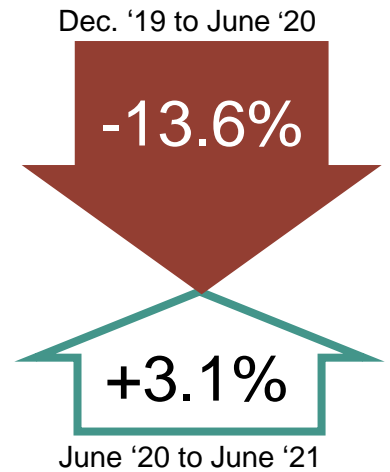
TDS = Transmission, Distribution & Storage
EPG = Electric Power Generation

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

How is the EE industry recovering?



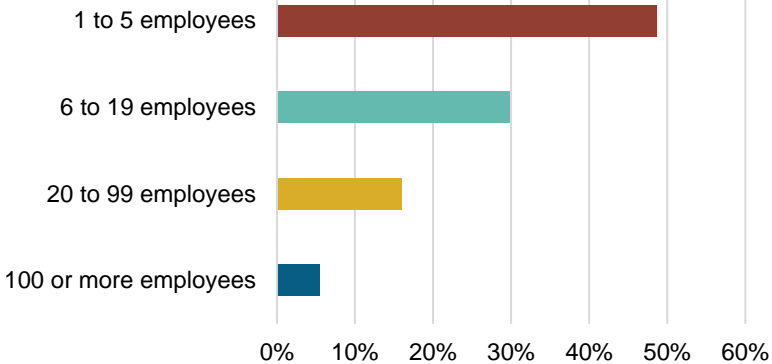
Recovery from COVID-19 has fallen short of Dec. 2019 levels and is significantly below pre-pandemic projections.



Source: E4TheFuture/BW Research job analysis, July 2021

What does EE look like in Illinois?

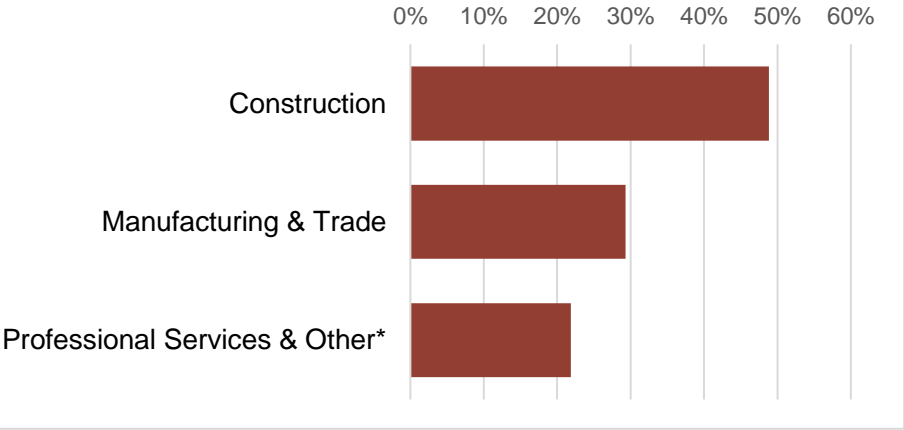
94.4% of IL EE Businesses Have Less Than 100 Employees



15,240
EE businesses in Illinois

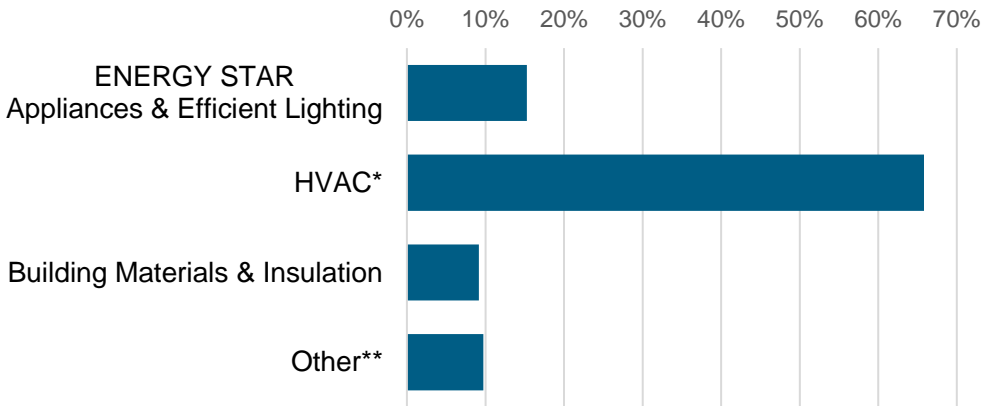
EE construction workers comprise **18%** of Illinois construction workers

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?



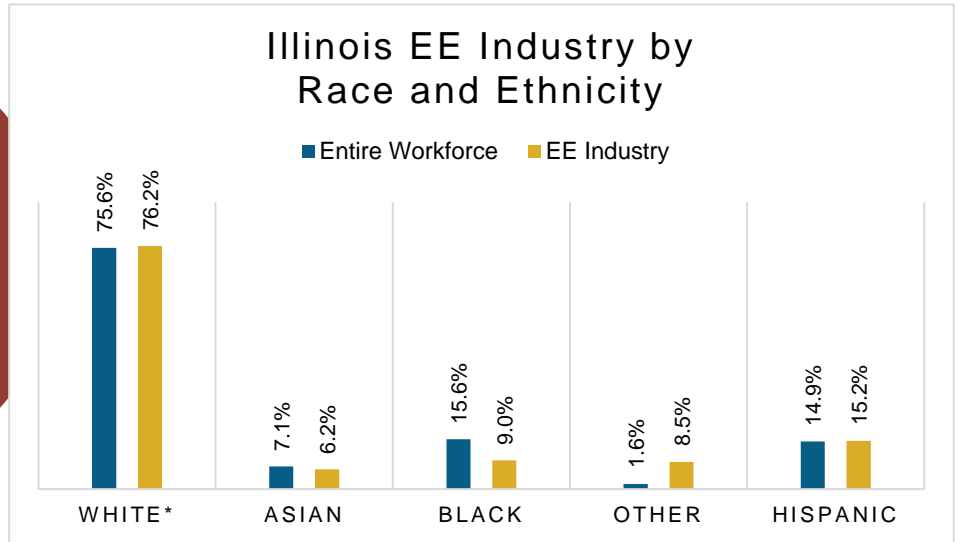
7% of Illinois EE workers are Veterans

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

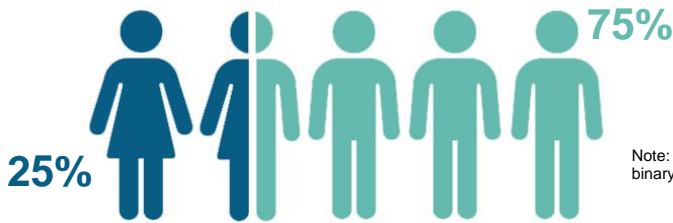
How is EE doing on diversity in Illinois?

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 Illinois 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.

Illinois's EE Potential

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

Weatherization Assistance Program:


2,633* units weatherized in 2018, out of **~570,000** total low-income households

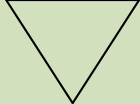
4,054,850

Illinois homes are due for energy tune-ups



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

Potential to **reduce** residential electricity consumption by

18%


*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 | 4,641 | Bloomington-Normal | 820 |
| 2 | 1,916 | Cape Girardeau-Jackson | 13 |
| 3 | 3,727 | Champaign-Urbana | 1,273 |
| 4 | 3,705 | Chicago-Naperville-Joliet | 56,920 |
| 5 | 6,867 | Danville | 453 |
| 6 | 9,527 | Davenport-Moline-Rock Island | 1,180 |
| 7 | 11,750 | Decatur | 628 |
| 8 | 2,747 | Kankakee-Bradley | 546 |
| 9 | 3,821 | Peoria | 2,335 |
| 10 | 3,876 | Rockford | 2,055 |
| 11 | 2,543 | Springfield | 1,639 |
| 12 | 4,590 | St. Louis | 4,004 |
| 13 | 4,780 | Rural | 8,807 |
| 14 | 2,513 | | |
| 15 | 3,242 | | |
| 16 | 4,267 | | |
| 17 | 3,843 | | |
| 18 | 2,316 | | |

| State Senate | | | | | | | |
|--------------|--------|----------|-------|----------|-------|----------|-------|
| District | Jobs | District | Jobs | District | Jobs | District | Jobs |
| 1 | 1,235 | 16 | 612 | 31 | 671 | 46 | 697 |
| 2 | 1,986 | 17 | 469 | 32 | 857 | 47 | 1,031 |
| 3 | 11,698 | 18 | 169 | 33 | 343 | 48 | 2,094 |
| 4 | 2,269 | 19 | 1,362 | 34 | 1,763 | 49 | 93 |
| 5 | 559 | 20 | <5 | 35 | 696 | 50 | 721 |
| 6 | 1,250 | 21 | 3,030 | 36 | 1,369 | 51 | 1,633 |
| 7 | 588 | 22 | 2,466 | 37 | 2,144 | 52 | 875 |
| 8 | 2,543 | 23 | 3,608 | 38 | 1,503 | 53 | 504 |
| 9 | 2,447 | 24 | 1,945 | 39 | 347 | 54 | 1,679 |
| 10 | 1,037 | 25 | 2,602 | 40 | 203 | 55 | 1,220 |
| 11 | 259 | 26 | 3,406 | 41 | 584 | 56 | 767 |
| 12 | 230 | 27 | 2,335 | 42 | 6 | 57 | 588 |
| 13 | 129 | 28 | <5 | 43 | 593 | 58 | 1,164 |
| 14 | 1,842 | 29 | 948 | 44 | 2,225 | 59 | 919 |
| 15 | 1,307 | 30 | 320 | 45 | 729 | | |

State House of Representatives

| District | Jobs | District | Jobs | District | Jobs | District | Jobs |
|----------|-------|----------|-------|----------|-------|----------|-------|
| 1 | 806 | 32 | <5 | 63 | 808 | 94 | 552 |
| 2 | 425 | 33 | <5 | 64 | 47 | 95 | 1,004 |
| 3 | 1,113 | 34 | 450 | 65 | 342 | 96 | 1,088 |
| 4 | 867 | 35 | 168 | 66 | <5 | 97 | 92 |
| 5 | 7,913 | 36 | <5 | 67 | 1,139 | 98 | <5 |
| 6 | 3,912 | 37 | 1,184 | 68 | 619 | 99 | 278 |
| 7 | 1,790 | 38 | 174 | 69 | 284 | 100 | 441 |
| 8 | 474 | 39 | <5 | 70 | 406 | 101 | 663 |
| 9 | 558 | 40 | <5 | 71 | 1,070 | 102 | 967 |
| 10 | <5 | 41 | 1,768 | 72 | 297 | 103 | 449 |
| 11 | 1,000 | 42 | 1,258 | 73 | 1,510 | 104 | 425 |
| 12 | 253 | 43 | 1,657 | 74 | 630 | 105 | 135 |
| 13 | 401 | 44 | 803 | 75 | 1,077 | 106 | 367 |
| 14 | 188 | 45 | 2,371 | 76 | 418 | 107 | 721 |
| 15 | 2,243 | 46 | 1,232 | 77 | 7 | 108 | 959 |
| 16 | 304 | 47 | 1,941 | 78 | 340 | 109 | 776 |
| 17 | 2,003 | 48 | <5 | 79 | 204 | 110 | 441 |
| 18 | 439 | 49 | 1,417 | 80 | <5 | 111 | 361 |
| 19 | 236 | 50 | 1,183 | 81 | 428 | 112 | 405 |
| 20 | 798 | 51 | 2,430 | 82 | 154 | 113 | 426 |
| 21 | 65 | 52 | 975 | 83 | <5 | 114 | 161 |
| 22 | 193 | 53 | 1,240 | 84 | 6 | 115 | 744 |
| 23 | 229 | 54 | 1,097 | 85 | 219 | 116 | 418 |
| 24 | <5 | 55 | <5 | 86 | 373 | 117 | 589 |
| 25 | 128 | 56 | <5 | 87 | 1,404 | 118 | 327 |
| 26 | <5 | 57 | <5 | 88 | 819 | | |
| 27 | 1,358 | 58 | 947 | 89 | 647 | | |
| 28 | 480 | 59 | 178 | 90 | 80 | | |
| 29 | 1,141 | 60 | 141 | 91 | 239 | | |
| 30 | 162 | 61 | 464 | 92 | 460 | | |
| 31 | 612 | 62 | 206 | 93 | 477 | | |



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.