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# CLEAN JOBS MIDWEST

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Illinois Renewable Energy Conference  
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# CLEAN JOBS MIDWEST: Overview

Comprehensive look at clean energy + energy efficiency jobs in the MW for 2015

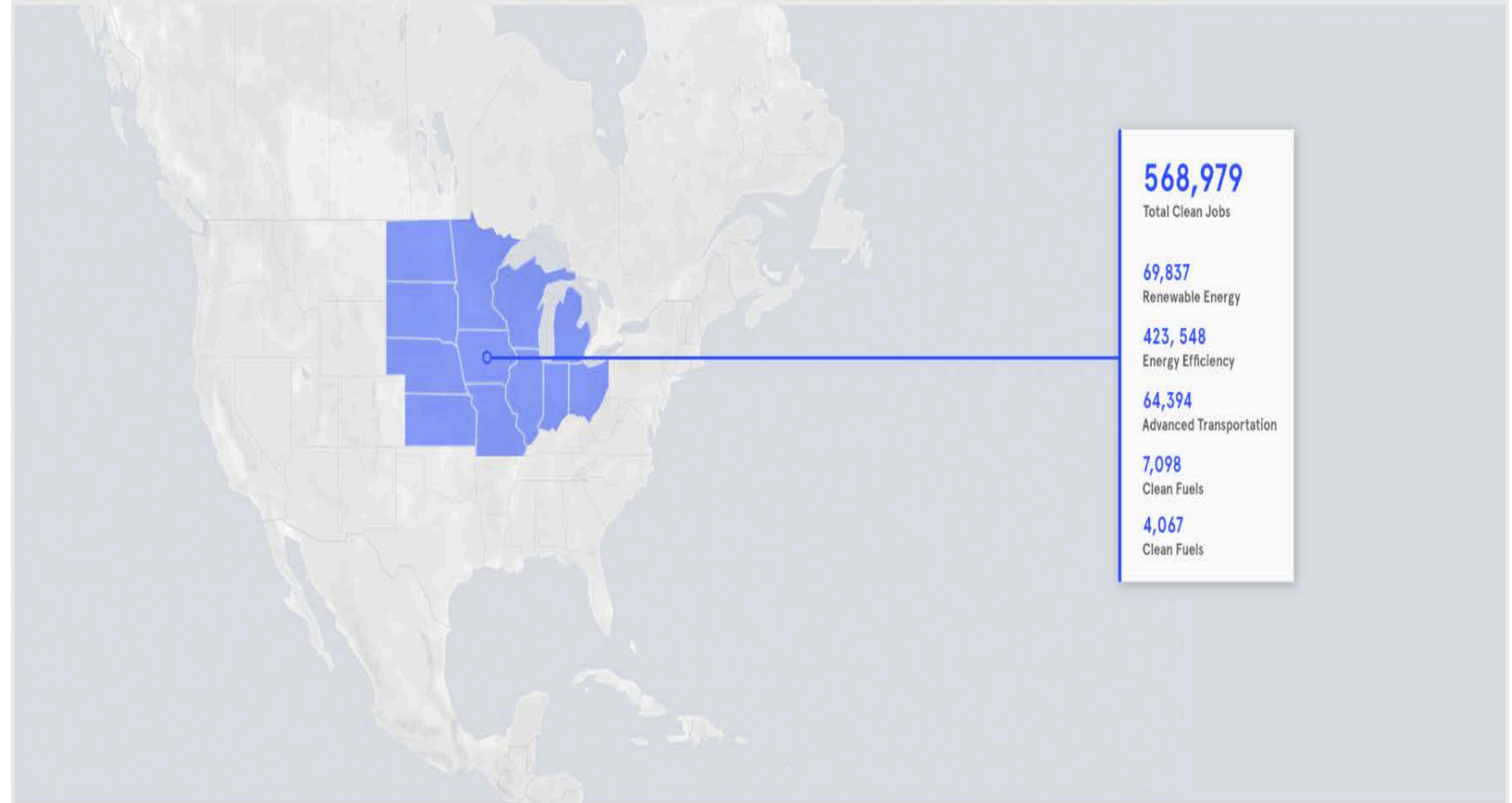
## 12 state region

Dakotas, Nebraska, Kansas

Minnesota, Iowa, Missouri

Wisconsin, Illinois

Michigan, Indiana, and Ohio



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# CLEAN JOBS MIDWEST: Partnerships

- Partnership with BW Research and Clean Energy Trust
- Data comes from BW's Energy Employment Index and the Bureau of Labor Statistics
- 20,000 business establishments participated
- 8,500 provided full responses
- In-state partners for specific state releases



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# CLEAN JOBS MIDWEST: Methodology

## Industry Sectors

- **Renewable energy generation** – wind, solar, geothermal, biomass, low-impact hydropower
- **Energy efficiency** – HVAC efficiency, advanced building materials, lighting; includes installation and maintenance
- **Advanced grid** – smart grid technology, advanced energy storage
- **Clean fuels** – woody & non-woody biofuels (incl. non-corn ethanol), biodiesel, wood energy
- **Advanced transportation** – vehicles using advance & alt. fuel sources incl. hybrid-electric, electric, natural gas, fuel cell, and hydrogen

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# CLEAN JOBS MIDWEST: THE NUMBERS

Clean jobs are a significant part of the MW economy

568,979 jobs in clean energy jobs sector

And the sector is growing

Clean energy jobs in the Midwest are projected to grow 4.4% in 2016



## Clean Jobs Midwest



**568,979** Jobs

The Midwest is home to a diverse clean energy jobs sector, and the number is growing steadily



**4.4%** Projected Growth

Projected growth in the region over the next 12 months

Learn More at:

[CleanJobsMidwest.com](http://CleanJobsMidwest.com)

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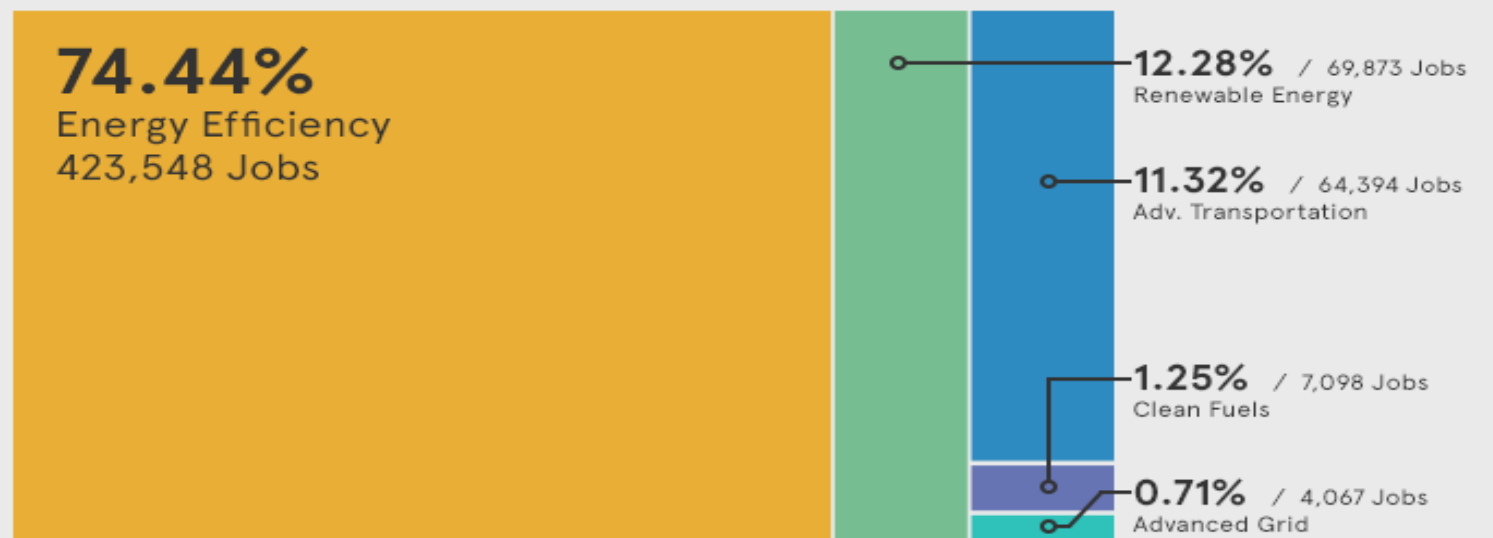
# CLEAN JOBS MIDWEST: THE NUMBERS

## Clean jobs by sector

- Energy efficiency – 74%; 423,548 jobs
- Renewable energy – 12.3%; 69,873 jobs
- Advanced transportation – 11.3%; 64,394 jobs
- Clean fuels – 1.25%; 7,098 jobs
- Advanced grid – 0.71%; 4,067 jobs



## Clean Jobs Midwest



Learn More at:

[CleanJobsMidwest.com](http://CleanJobsMidwest.com)

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# CLEAN JOBS MIDWEST: Illinois

- Ranked #1 with 113,918 clean jobs in 2015
- Projected to grow 5.3% this year
- Majority of these jobs in energy efficiency (78%)
- Lost renewable jobs over the past year
- Small business is big: Over 70% of clean businesses employ fewer than 25 individuals



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# CLEAN JOBS MIDWEST: INDUSTRY SECTORS

## Energy efficiency

- 423,548 jobs
- 74% of clean energy jobs
- Focused on how efficiently energy is used
- HVAC efficiency -- 42%
- Advanced building materials – 16%
- Efficient lighting – 16%



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# CLEAN JOBS MIDWEST: INDUSTRY SECTORS

## Renewable Energy

- 69,873 jobs
- 12.3% of total
- Wind, solar, geothermal, biomass, low-impact hydro
- Generation of renewables
- Solar generation -- 51%
- Wind -- 34%



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# CLEAN JOBS MIDWEST: INDUSTRY SECTORS

## Advanced Transportation

- 64,394 jobs
- 11.3% of total
- Hybrid, electric, natural gas, fuel cell, and hydrogen vehicles
- Includes production, maintenance, sales and professional services, but not car dealerships or fueling stations
- Electric vehicle technologies – 40%
- Natural gas – 30%
- Hybrids – 29%



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# CLEAN JOBS MIDWEST: INDUSTRY SECTORS

## Clean Fuels

- 7,098 jobs
- 1.25% of total
- Work with woody and non-woody biofuels
- Non-corn ethanol, biodiesel, wood energy
- Vast majority in non-woody bio fuels – 95%
- Woody biofuels – 5%



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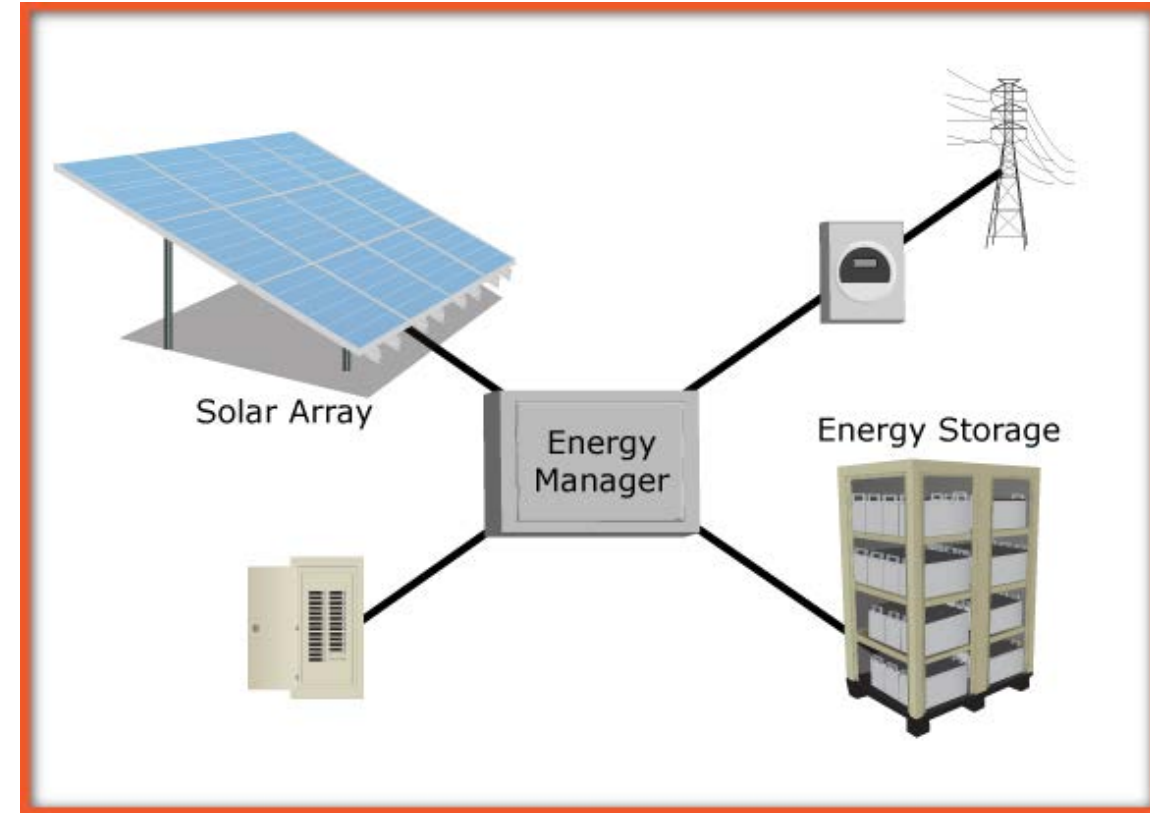




# CLEAN JOBS MIDWEST: INDUSTRY SECTORS

## Advanced Grid

- Over 4,000 jobs
- <1% of total
- Workers employed in smart grid technology or advanced energy storage
- Storage accounts for 72% of these jobs
- Smart grid accounts for 28%



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# CLEAN JOBS MIDWEST: REGIONAL RANKINGS

## Projected Growth:

- 4.4% projected growth in the region in 2016
- 25,035 jobs to be added
- Missouri leads projected growth rate at 8.3%
- Illinois leads projected new jobs with 6,022

State	Projected Growth	Jobs to be Added
MO	8.3%	4,331
IL	5.3%	6,022
SD	5.0%	358
NE	5.0%	822
OH	4.9%	4,912
WI	4.8%	1,177
MN	4.4%	2,423
ND	4.1%	492
IA	3.0%	867
MI	2.6%	2,262
KS	2.3%	624
IN	1.3%	586
Midwest	4.4%	25,035

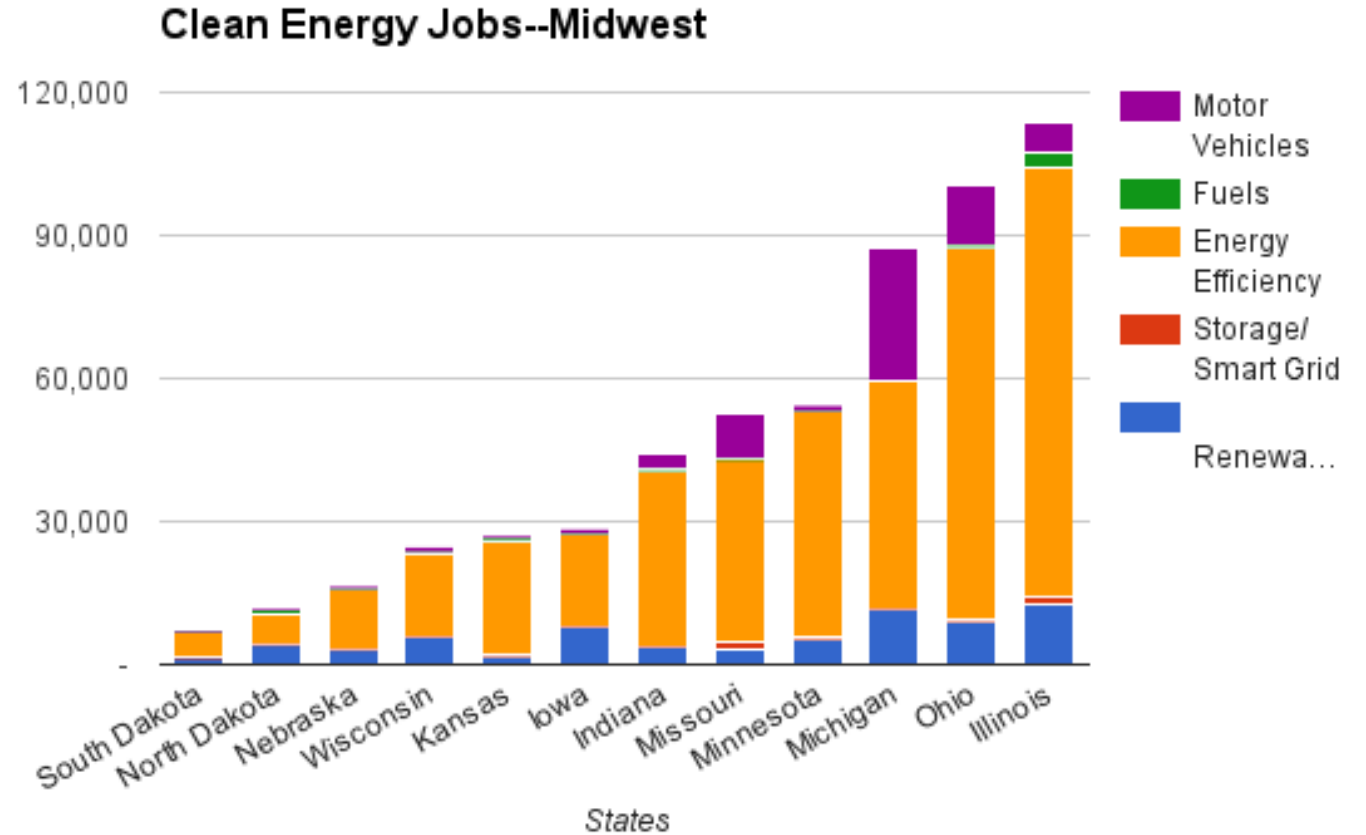
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# CLEAN JOBS MIDWEST: REGIONAL RANKINGS

## Total Jobs, by State:

- Illinois – 113,918
- Ohio – 100,782
- Michigan – 87,616
- Minnesota – 54,458
- Missouri – 52,479
- Indiana – 44,133
- Iowa – 28,451
- Kansas – 27,005
- Wisconsin – 24,714
- Nebraska – 16,422
- North Dakota – 11,882
- South Dakota – 7,118



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# CLEAN JOBS MIDWEST: ONLINE TOOLS

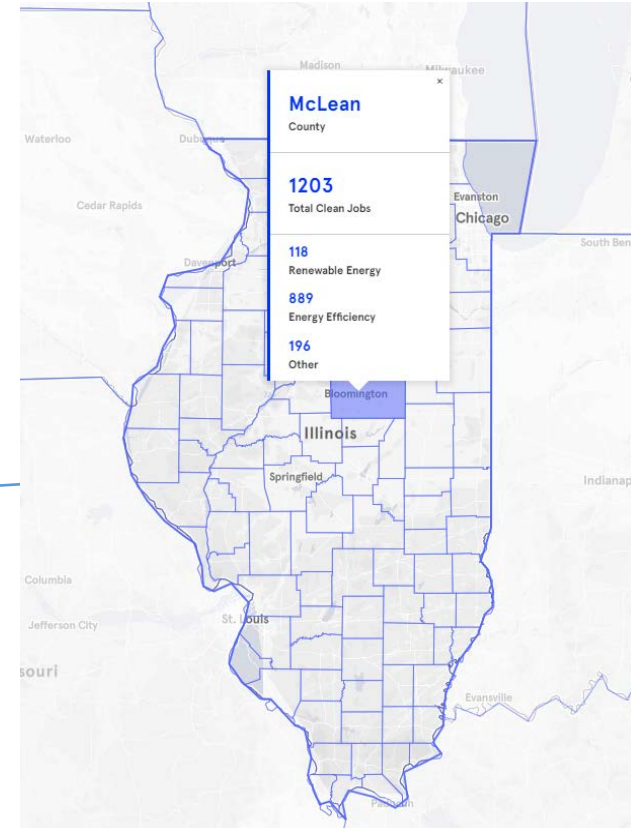
[www.CleanJobsMidwest.com](http://www.CleanJobsMidwest.com)

State specific data for all 12 states

Compare states

Data sortable by:

- County
- State House
- State Senate
- Congressional District
- MSA



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# ENVIRONMENTAL ENTREPRENEURS

[www.e2.org](http://www.e2.org)

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## Thank You!

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