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Clean Energy Powers Illinois

REPORT



Executive Summary

Illinois is a state leader in clean energy. The Prairie State's wind and solar sectors provide over 14% of the state's electricity and are powered by $18 billion in private sector investments to date.

The state's utility-scale clean energy capacity, currently at **9,400 MW,** generates over **$135 million** annually in tax and land lease revenue for Illinois's communities. The wind, solar and storage sectors currently employ **16,300** Illinois residents.

By 2030, the state is expected to add an additional 4,500 MW of utility-scale solar, 5,400 MW of wind power, and 3,800 MW of battery storage, representing a 146% increase in total clean power capacity. These projects represent **$15 billion** in expected private sector investment that will support Illinois's clean energy economy by 2030. This investment will drive job creation, increase tax payments, and generate substantial land lease payments.

Today...



14%
of Illinois's electricity provided by wind and solar

Illinois ranks
#5 in the nation
for wind and solar deployed

Over
16,300 Illinoisans
work in wind, solar, and storage

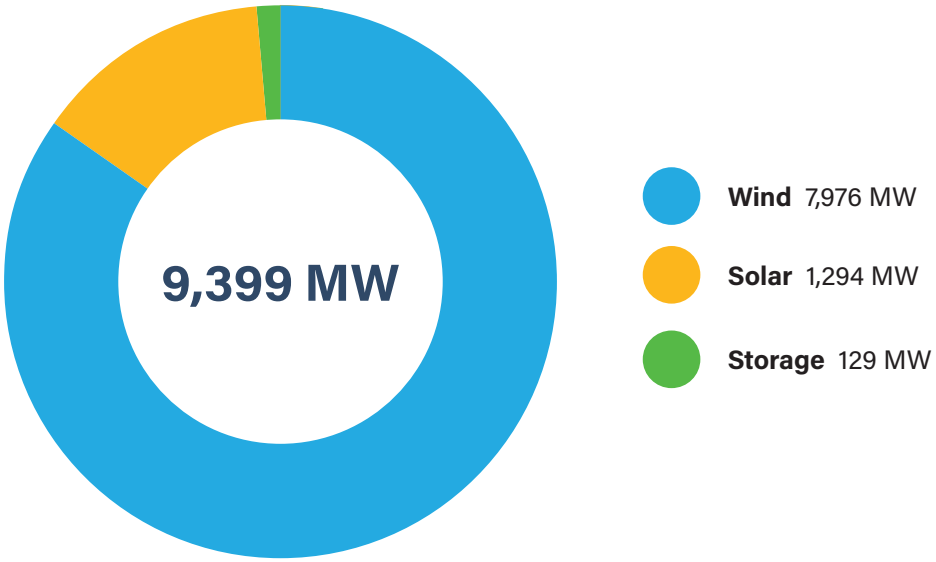
$18 billion
in investments made into Illinois clean energy

ILLINOIS

Clean Energy Economy

As of December 2023, Illinois's total clean energy capacity stands at **9,400 MW.** That is enough electricity to power the equivalent of **3.4 million homes** — roughly equivalent to powering all the homes in the Chicago metropolitan area three times over!

Clean Energy Capacity *as of Q4 2023*



The private sector has invested **$18 billion** in utility-scale solar, wind, and storage projects, helping drive economic growth in the state. Illinois also hosts **33 operating clean energy manufacturing facilities.** In total, solar, wind, and storage provide 16,300 jobs to Illinoisans across the state.

Today, **14% of the state's electricity** comes from wind and solar. Of all states, Illinois has deployed the fifth-highest amount of wind and solar—enough electricity to power **3.4 million homes.**

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Clean Energy Investment



Clean Energy Project Investment *as of Q4 2023*

Investments in Illinois clean power total **$18 billion dollars.** As more projects and manufacturing facilities are planned, total capital investment is expected to grow.

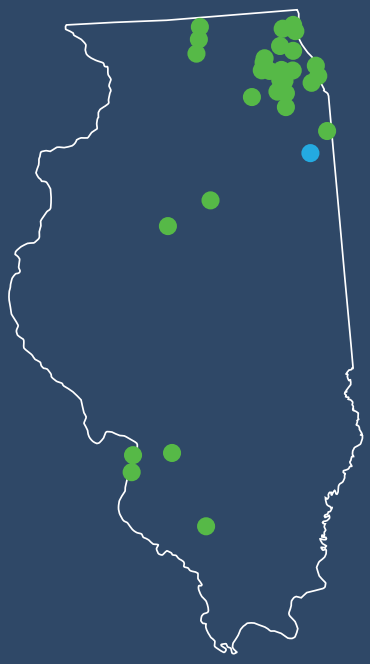


- **Wind** $16B
- **Solar** $2B
- **Storage** $300M

Clean Energy Manufacturing Facilities

as of Q4 2023

- Online
- Announced



33

manufacturing facilities operating

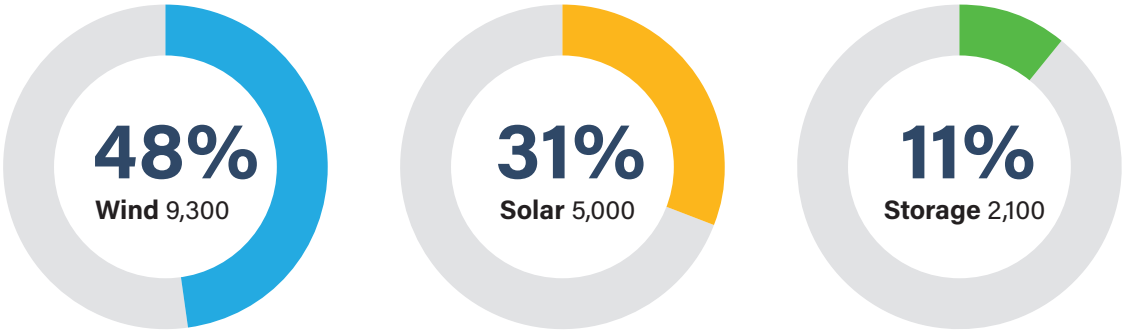
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Clean Energy Jobs

The over **16,300 jobs** in the solar, wind, and storage sectors span jobs—including good paying union jobs—in construction, development , operations, and manufacturing.[1] Learn more about the breadth of jobs available across the clean energy sectors.

Clean Energy Jobs *as of Q4 2023*

Total Jobs: **16,300**



Almost **60%** of Illinois voters support creating more clean energy jobs.

Source: Illinois Voters Support for Energy Storage System Incentives, Impact Research, conducted January 17-21, 2024.





[1] https://www.energy.gov/policy/us-energy-employment-jobs-report-useer

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Local Economic Contributions

Tax Payments (State & Local)

$73 million
annually



Land Lease Payments

$62 million
annually



Total: **$135 million annually**

Clean energy projects invest **$135 million annually** into Illinois' communities through land-lease and tax payments. These projects not only generate pollution-free American electricity but provide critical revenue on the state and local level that helps bridge budget shortfalls and allows communities to plan and invest in their future. This revenue can provide enough new income to repair roads, invest in schools, and fund essential services. Landowners also benefit, receiving land lease payments from clean power located on their land. This allows families new avenues for drought-proof and flood-proof income, while allowing opportunities to hold onto land passed down through generations. Furthermore, co-locating clean energy with farmland supports agricultural sustainability by helping farmers afford to continue farming, rejuvenating over-farmed land, reducing land use competition, and increasing tax income for rural communities.

Case Study: Grand Ridge Energy Center

Invenergy's Grand Ridge Energy Center, located in LaSalle County, began operating in 2008. Over the past 16 years, solar and storage have been added to the existing wind capacity. The center now generates 210 MW of wind, 20 MW of solar, and 36 MW of battery storage annually, which is enough electricity to power approximately 54,000 homes. Grand Ridge has had an important economic impact on the community by creating 330 construction phase jobs and 24 full-time jobs, as well as nearly $5 million in taxes, landowner payments, and workforce wages.[2]

[2] https://invenergy.com/projects/case-studies/grand-ridge-energy-center

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Future Projections

By 2030, Illinois anticipates adding to its grid **4,500 MW of solar, 5,400 MW of land-based wind power,** and **3,800 MW of battery storage.**[3]

This represents a 133% increase in total clean power by 2030, with $15 billion in capital investment expected.

All of this clean energy activity will spur job growth, increase estimated tax payments to **$200 million** annually, and generate **$183 million** in annual land lease payments.

The state's clean energy manufacturing sector will also benefit as companies evaluate new or expanded manufacturing facilities in reaction to passage of the Inflation Reduction Act of 2022.

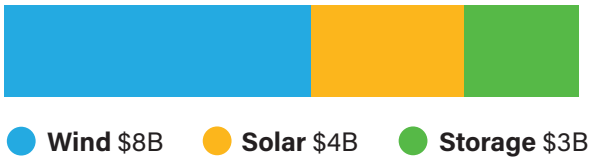
FOR EXAMPLE:

Gotion has announced a new manufacturing facility in the state, **creating an estimated 2,600 new jobs.**

Flender Corporation has announced an expansion of its existing gearbox manufacturing facility which will **retain 140 jobs and create 50 new jobs.**[4]

Prysmian Group announced a **$63.8 million investment** into an expansion of its current renewable cable manufacturing operations. The investment will **retain 225 jobs and create 80 new jobs.**[5]

Expected Clean Energy Capital Investment by 2030



$15 billion

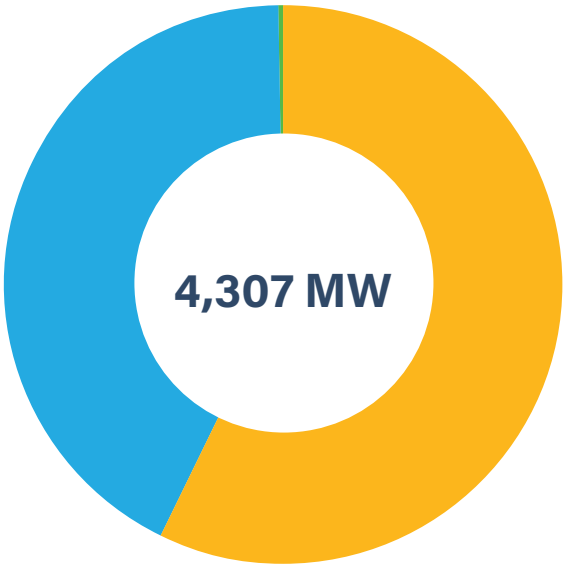
Wind $8B **Solar** $4B **Storage** $3B

[3] Estimates based on consultant forecasts, public announcements, and ACP analysis
[4] https://cleanpower.org/investing-in-america/
[5] https://na.prysmian.com/press-release/prysmian-group-breaks-ground-on-63-point-8-million-dollar-du-quoin-facility-expansion-project#:~:text=Prysmian%20Group%2C%20the%20world%20leader,energy%20and%20electric%20vehicle%20sectors

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Clean Energy Under Development (Pipeline)

Clean Energy Under Development *as of Q4 2023*



As of December 2023, there is 4,307 MW of utility-scale clean capacity under development. This is enough to **power the equivalent of over 6 million homes in Illinois.**

- **Solar** 2,465 MW
- **Wind** 1,835 MW
- **Storage** 7 MW

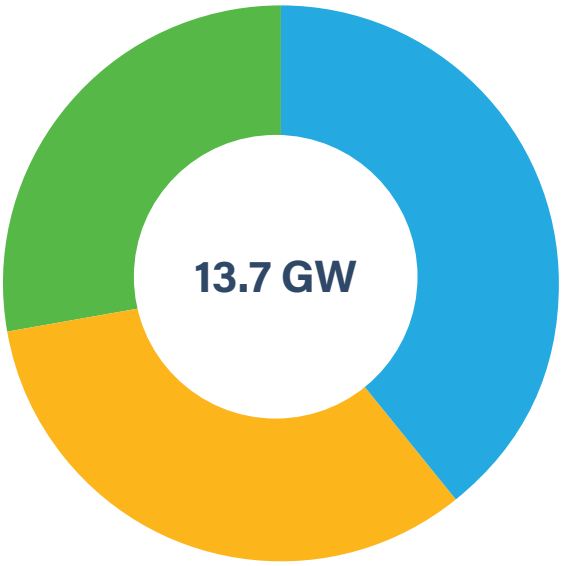
Expected Additional Clean Power Capacity by 2030

Estimates based on existing projects and forecasted pipeline

5,400 MW
of additional land-based wind power

4,500 MW
of additional solar

3,800 MW
of additional battery storage



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Local Economic Contributions in 2030

Estimates based on existing projects and forecasted pipeline



The American Clean Power Association (ACP) is the leading voice of today's multi-tech clean energy industry, representing over 800 energy storage, wind, utility-scale solar, clean hydrogen and transmission companies. ACP is committed to meeting America's national security, economic and climate goals with fast-growing, low-cost, and reliable domestic power.

Learn more at **FuelForThought.energy**.

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This report was compiled with all available data as of March 31, 2024.