



## WIND ENERGY

**Did you know that West Des Moines allows residents to install wind turbines on their property?**

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Iowa is a national leader in the wind energy industry. Iowa generated nearly 42% of its electricity from wind power in 2019, ranking first in the nation for wind energy as a share of total electricity generation & generating enough electricity to power the equivalent of more than 2.4 million average American homes. Iowa also ranks second in the nation for installed capacity with over 10,600 MW of wind online, representing \$19 billion in capital investment. The state has attracted investments from major wind industry players including turbine & blade manufacturer Siemens Gamesa Renewable Energy & blade manufacturer TPI Composites. Thanks to companies like these, Iowa is home to over 9,000 wind industry jobs.

### Environmental Benefits

Wind energy reduces emissions & water consumption by avoiding generation from fossil-fuel power plants.

- In-state carbon dioxide emissions avoided in 2019\*: 12.6 mill. metric tons  
» Equivalent cars' worth of emissions avoided: 2.7 mill.
- In-state water consumption savings in 2019\*\*\*: 7.1 bill. gallons

\*Estimated using Aurora power sector model.

\*\*Based on national average water consumption factors for coal & gas plants.

### Wind Generation

In 2019, wind energy provided 41.90% of all in-state electricity production.

- State rank for share of electricity: 1st
- Equivalent number of homes powered by wind in 2019: 2,436,500

### Jobs & Economic Benefits

The U.S. wind industry is a major economic development driver. In addition to job creation & billions of dollars in project investment, the wind industry invests heavily in local communities, providing significant revenue in the form of property, state, & local taxes.

- Direct wind industry jobs in 2019: 9,001 to 10,000
- Capital investment in wind projects through 2019\*: \$19 bill.
- Annual state & local tax payments by wind projects: \$61 mill.
- Annual land lease payments: \$69 mill.

\*Source: Based on state & national averages from LBNL, NREL