The U.S. wind industry installed 4,125 megawatts (MW) of new wind capacity during the fourth quarter, bringing year-to-date installations to 7,017 MW. There are now 89,077 MW of cumulative installed capacity in the United States.

In addition to new installed wind capacity, 2,136 MW of partial repowerings were completed during 2017.

The U.S. wind industry reported 28,668 MW of wind capacity under construction or in advanced development, a 34% year-over-year increase. This includes 5,393 MW in new announcements made during the fourth quarter.

Nearly 5,500 MW of PPAs were signed during 2017, a 29% year-over-year increase. Corporate and other non-utility customers signed all 710 MW of PPAs announced during the fourth quarter.
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- U.S. Wind Power Capacity, New Installations during Fourth Quarter 2017 by State
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## AWEA Data Services
2017 Wind Project Installations

- The U.S. wind industry installed 4,125 MW of new wind capacity during the fourth quarter. For the year, the U.S. installed 7,017 MW.
- A total of 29 new wind projects were commissioned across 16 states during the fourth quarter. Texas led with 1,179 MW installed, followed by Oklahoma (851 MW), Iowa (334 MW), Illinois (306 MW), and Missouri (300 MW).
- Oklahoma now has 7,495 MW of cumulative installed capacity, surpassing Iowa (7,308 MW) to become the second-ranked state.
- There are now 89,077 MW of cumulative installed wind capacity in the United States, with more than 54,000 wind turbines operating in 41 states plus Guam and Puerto Rico.
- In addition to new installed capacity, the U.S. wind industry completed 2,136 MW of partial repowerings across 15 project phases during 2017, with GE Renewable Energy installing 79% of the partially repowered capacity for the year.

Wind Capacity Under Construction or in Advanced Development

- There are now 13,332 MW under construction and 15,336 MW in advanced development. The combined 28,668 MW represents a 34% year-over-year increase, the second highest level reported since AWEA began tracking both categories at the beginning of 2016.
- Project developers announced 4,054 MW in new construction activity and 1,338 MW in new advanced development activity during the fourth quarter, a combined 5,393 MW.
- Consistent with the previous quarter, 30% of combined activity is located in the Midwest. An additional 21% is located in the Plains states, followed by the Mountain West states (20%) and Texas (20%).

Wind Power Procurement Activity

- Project developers signed 710 MW of PPAs during the fourth quarter, contributing to a total of 5,496 MW of PPAs signed for the year. PPA volume for 2017 outpaced each of the last three years, increasing 29% over the previous year.
- Corporate and other non-utility customers signed all PPAs announced during the fourth quarter, comprising 40% of total capacity contracted for the year (2,178 MW), similar to the 39% share captured in 2016.
- Electric utilities signed the remaining 60% of capacity contracted for the year (3,317 MW), and announced plans to develop and own 4,190 MW of rate-based wind capacity.
Note: Utility-scale wind capacity includes installations of wind turbines larger than 100-kW for the purpose of the AWEA U.S. Wind Industry Quarterly Market Reports. Annual capacity additions and cumulative capacity may not always add up due to decommissioned and repowered wind capacity. Wind capacity data for each year is continuously updated as information changes.
U.S. Wind Power Capacity, New Installations by Quarter

Wind Power Capacity (MW)

- 1Q
- 2Q
- 3Q
- 4Q

<table>
<thead>
<tr>
<th>Year</th>
<th>1Q</th>
<th>2Q</th>
<th>3Q</th>
<th>4Q</th>
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<td>3,080</td>
<td>1,221</td>
<td>1,589</td>
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<td>2010</td>
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<td>673</td>
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<tr>
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<td>3,298</td>
<td>1,118</td>
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<td>3,446</td>
<td>1,695</td>
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<td>1,016</td>
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<td>1,661</td>
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<td>2014</td>
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<td>2016</td>
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<td>6,478</td>
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<tr>
<td>2017</td>
<td>4,125</td>
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U.S. Wind Power Cumulative Installed Capacity by State

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<tr>
<th>State</th>
<th>Capacity (MW)</th>
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<td>WA</td>
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<tr>
<td>OR</td>
<td>3,213</td>
</tr>
<tr>
<td>WA</td>
<td>3,075</td>
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<td>CO</td>
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<td>KS</td>
<td>5,110</td>
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<td>OK</td>
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<tr>
<td>TX</td>
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<td>IL</td>
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<td>MI</td>
<td>1,860</td>
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<td>PA</td>
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<tr>
<td>MA</td>
<td>115</td>
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<tr>
<td>AK</td>
<td>62</td>
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<td>HI</td>
<td>206</td>
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<td>GU</td>
<td>&lt;1</td>
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<tr>
<td>PR</td>
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Legend:
- 0 to 100 MW
- >100 MW to 1,000 MW
- >1,000 MW to 5,000 MW
- >5,000 MW to 10,000 MW
- >10,000 MW
U.S. Wind Power Capacity, New Installations during Fourth Quarter 2017 by State
## U.S. Installed Wind Power Capacity, Top States

### Top Five States with New Wind Power Capacity Additions (MW)

<table>
<thead>
<tr>
<th>State</th>
<th>1Q 2017</th>
<th>2Q 2017</th>
<th>3Q 2017</th>
<th>4Q 2017</th>
<th>2017 Total</th>
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<td>Texas</td>
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<td>0</td>
<td>402</td>
<td>1,179</td>
<td>2,305</td>
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<tr>
<td>Oklahoma</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>851</td>
<td>851</td>
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<tr>
<td>Kansas</td>
<td>481</td>
<td>178</td>
<td>0</td>
<td>0</td>
<td>659</td>
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<tr>
<td>New Mexico</td>
<td>242</td>
<td>0</td>
<td>30</td>
<td>298</td>
<td>570</td>
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<tr>
<td>Iowa</td>
<td>41</td>
<td>22</td>
<td>0</td>
<td>334</td>
<td>397</td>
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</table>

### Analysis

- A total of 29 new wind projects were commissioned across 16 states during the fourth quarter (4,125 MW). Texas led with 1,179 MW, followed by Oklahoma (851 MW), Iowa (334 MW), Illinois (306 MW), and Missouri (300 MW).
- Oklahoma now has 7,495 MW of cumulative installed capacity, surpassing Iowa (7,308 MW) to become the second-ranked state.
- Texas continues to lead the nation with 22,637 MW of cumulative installed capacity, more than triple that of any other state.
- Colorado, Michigan, New Mexico, and Nebraska all moved up one place in the state rankings during the fourth quarter.
• There are now 28,668 MW of wind power capacity under construction (13,332 MW) or in advanced development (15,336 MW), a 34% year-over-year increase, and the second highest level of combined activity since AWEA began tracking both categories at the beginning of 2016.

• Project developers announced 5,393 MW in combined new activity during the fourth quarter, including 4,054 MW in new construction announcements and 1,338 MW in new advanced development announcements.

• The 28,668 MW is spread across 149 projects in 31 states. Consistent with the previous quarter, 30% of all activity is located in the Midwest region. An additional 21% located in the Plains states, followed by the Mountain West states (20%) and Texas (20%).
Wind Power Capacity Under Construction

- The fourth quarter saw 4,054 MW in new construction announcements, bringing total construction activity to 13,332 MW.

Note: Project developers self-report projects as under construction. The AWEA under construction definition is at the discretion of the project developer and may be different from the start construction definition under IRS Notices 2013-29 and 2013-60; projects are presumed to have taken steps to qualify for the PTC through safe harbor or physical construction.
• Total construction activity (13,332 MW) spans 64 project phases in 20 states.

• Project developers announced 4,054 MW in new construction activity across 24 project phases in 14 states during the fourth quarter, including a 180 MW wind project in Arkansas.

• Iowa led the nation with 736 MW in new construction announcements, followed by Oklahoma (614 MW), Nebraska (528 MW), and Texas (501 MW).

• Texas continues to lead with a 31% share of total construction activity, though less than its record 54% share reached at the beginning of 2017.
Map of Projects Online during 2017, Under Construction, or in Advanced Development

- Projects Online 2017
- Projects Under Construction
- Projects in Advanced Development
### Utility-Scale Wind Projects Completed during 2017

<table>
<thead>
<tr>
<th>State</th>
<th>Project Phase Name</th>
<th>Project Capacity (MW)</th>
<th>Turbine OEM</th>
<th>Turbine Model</th>
<th>Project Developer</th>
<th>Project Owner</th>
<th>Power Purchaser</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI</td>
<td>Lalamilo Wells Repowering</td>
<td>3.30</td>
<td>Vestas</td>
<td>V47</td>
<td>Lalamilo Wind Company LLC</td>
<td>Lalamilo Wind Company LLC</td>
<td>Hawaii County Department of Water Supply</td>
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<tr>
<td>IA</td>
<td>30 MW Iowa DG Portfolio</td>
<td>30.00</td>
<td>Nordex USA</td>
<td>AW125/3000</td>
<td>Optimum Renewables</td>
<td>Building Energy Wind Iowa</td>
<td>Interstate Power &amp; Light</td>
</tr>
<tr>
<td>IA</td>
<td>August Wind Energy LLC</td>
<td>1.79</td>
<td>GE Renewable Energy</td>
<td>1.7-100</td>
<td>Greenfield Power</td>
<td>August Wind Energy LLC</td>
<td>Central Iowa Power Cooperative</td>
</tr>
<tr>
<td>IA</td>
<td>Birch Power LLC</td>
<td>1.79</td>
<td>GE Renewable Energy</td>
<td>1.7-100</td>
<td>Greenfield Power</td>
<td>Birch Power LLC</td>
<td>Central Iowa Power Cooperative</td>
</tr>
<tr>
<td>IA</td>
<td>Mason Wind LLC Perry</td>
<td>6.00</td>
<td>HZ Windpower</td>
<td>H111-2000</td>
<td>Mason Wind LLC</td>
<td>Mason Wind LLC</td>
<td>Interstate Power &amp; Light</td>
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<td>1.79</td>
<td>GE Renewable Energy</td>
<td>1.7-100</td>
<td>Greenfield Power</td>
<td>Roseman Energy LLC</td>
<td>Central Iowa Power Cooperative</td>
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<tr>
<td>KS</td>
<td>Cimarron Bend II</td>
<td>200.00</td>
<td>Vestas</td>
<td>V110-2.0</td>
<td>Enel Green Power North America; Tradewind Energy</td>
<td>Enel Green Power North America; GE Energy Financial Services</td>
<td>Kansas City Board of Public Utilities</td>
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<tr>
<td>KS</td>
<td>Western Plains</td>
<td>280.60</td>
<td>Siemens</td>
<td>SWT-2.3-108</td>
<td>Infinity Wind Power</td>
<td>Westar Energy</td>
<td>Westar Energy</td>
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<td>Aeronautica</td>
<td>54-750</td>
<td>Crisfield Wastewater Treatment Plant</td>
<td>Crisfield Wastewater Treatment Plant</td>
<td>Crisfield Wastewater Treatment Plant, Excess to Delmarva Power</td>
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<tr>
<td>MI</td>
<td>Deerfield</td>
<td>149.00</td>
<td>Vestas</td>
<td>V110-2.0</td>
<td>Algonquin Power; RES Americas</td>
<td>Algonquin Power</td>
<td>Wolverine Power Supply</td>
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<td>NC</td>
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<td>Gamesa</td>
<td>G114-2.0</td>
<td>Avangrid Renewables</td>
<td>Avangrid Renewables</td>
<td>Amazon Web Services</td>
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<tr>
<td>ND</td>
<td>Oliver III</td>
<td>99.25</td>
<td>GE Renewable Energy</td>
<td>1.7-100; 2.0-116</td>
<td>NextEra Energy Resources</td>
<td>NextEra Energy Resources</td>
<td>Minnkota Power</td>
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<tr>
<td>NM</td>
<td>Broadview Energy JN LLC</td>
<td>98.90 (of 181.70)</td>
<td>Siemens</td>
<td>SWT-2.3-108</td>
<td>National Renewable Solutions; Pattern Energy Group LP</td>
<td>Pattern Energy Group LP</td>
<td>Southern California Edison</td>
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<tr>
<td>NM</td>
<td>Broadview Energy KW LLC</td>
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<td>Pattern Energy Group LP</td>
<td>Southern California Edison</td>
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<td>Seneca Nation</td>
<td>1.50</td>
<td>VENSYS</td>
<td>VENSYS 82</td>
<td>Seneca Nation of Indians</td>
<td>Seneca Nation of Indians</td>
<td>Seneca Nation of Indians, Excess to National Grid</td>
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<tr>
<td>OR</td>
<td>Benson Creek</td>
<td>10.00</td>
<td>GE Renewable Energy</td>
<td>2.0-116</td>
<td>Oregon Windfarms LLC</td>
<td>Oregon International Holdings LLC</td>
<td>Idaho Power</td>
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<tr>
<td>OR</td>
<td>Durbin Creek</td>
<td>10.00</td>
<td>GE Renewable Energy</td>
<td>2.0-116</td>
<td>Oregon Windfarms LLC</td>
<td>D. E. Shaw Renewable Investments LLC</td>
<td>Idaho Power</td>
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<tr>
<td>OR</td>
<td>Jett Creek</td>
<td>10.00</td>
<td>GE Renewable Energy</td>
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<td>Oregon Windfarms LLC</td>
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<td>OR</td>
<td>Prospector</td>
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<td>GE Renewable Energy</td>
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<td>Oregon Windfarms LLC</td>
<td>D. E. Shaw Renewable Investments LLC</td>
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<td>WED Coventry 5</td>
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<td>VENSYS</td>
<td>VENSYS 82</td>
<td>Wind Energy Development LLC</td>
<td>Wind Energy Development LLC</td>
<td>National Grid</td>
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### Utility-Scale Wind Projects Completed during 2017

<table>
<thead>
<tr>
<th>State</th>
<th>Project Phase Name</th>
<th>Project Capacity (MW)</th>
<th>Turbine OEM</th>
<th>Turbine Model</th>
<th>Project Developer</th>
<th>Project Owner</th>
<th>Power Purchaser</th>
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<td>National Renewable Solutions; Pattern Energy Group LP</td>
<td>Pattern Energy Group LP</td>
<td>Southern California Edison</td>
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<td>TX</td>
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<td>Merchant (ERCOT)</td>
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<td>TX</td>
<td>Old Settler Wind</td>
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<td>Apex Clean Energy</td>
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**Second Quarter 2017**

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<th>Project Phase Name</th>
<th>Project Capacity (MW)</th>
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<th>Turbine Model</th>
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<th>Power Purchaser</th>
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<tbody>
<tr>
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<td>V100-2.0</td>
<td>Enel Green Power North America; Tradewind Energy</td>
<td>Enel Green Power North America; GE Energy Financial Services</td>
<td>Basin Electric Power Cooperative</td>
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</table>

**Third Quarter 2017**

<table>
<thead>
<tr>
<th>State</th>
<th>Project Phase Name</th>
<th>Project Capacity (MW)</th>
<th>Turbine OEM</th>
<th>Turbine Model</th>
<th>Project Developer</th>
<th>Project Owner</th>
<th>Power Purchaser</th>
</tr>
</thead>
<tbody>
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<td>GE Renewable Energy</td>
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<td>Scheid Vineyards, Excess to Pacific Gas &amp; Electric</td>
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<td>IN</td>
<td>Meadow Lake V</td>
<td>100.00</td>
<td>Vestas</td>
<td>V110-2.0</td>
<td>EDP Renewables North America LLC</td>
<td>EDP Renewables North America LLC</td>
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<td>AEM Wind LLC</td>
<td>Western Farmers Electric Coop</td>
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<td>TX</td>
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<td>2.3-116</td>
<td>Lincoln Clean Energy</td>
<td>Lincoln Clean Energy</td>
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<td>TX</td>
<td>Rocksprings</td>
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<td>GE Renewable Energy</td>
<td>1.7-103; 2.3-116</td>
<td>Akuo Energy USA</td>
<td>Rocksprings Val Verde Wind LLC</td>
<td>Walmart (50 MW); Undisclosed PPA (99.34 MW)</td>
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</table>

**Fourth Quarter 2017**

<table>
<thead>
<tr>
<th>State</th>
<th>Project Phase Name</th>
<th>Project Capacity (MW)</th>
<th>Turbine OEM</th>
<th>Turbine Model</th>
<th>Project Developer</th>
<th>Project Owner</th>
<th>Power Purchaser</th>
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<tbody>
<tr>
<td>CA</td>
<td>California State Prison Los Angeles County</td>
<td>1.85</td>
<td>GE Renewable Energy</td>
<td>1.85-82.5</td>
<td>Foundation Windpower</td>
<td>Foundation Windpower</td>
<td>California State Prison Los Angeles County, Excess to Southern California Edison</td>
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<tr>
<td>CA</td>
<td>Golden Hills North</td>
<td>46.00</td>
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<td>NextEra Energy Resources</td>
<td>Sonoma Clean Power Authority</td>
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<td>CO</td>
<td>Twin Buttes II</td>
<td>75.00</td>
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<td>G114-2.0; G114-2.1</td>
<td>Avangrid Renewables</td>
<td>Avangrid Renewables</td>
<td>Tri-State G&amp;T Association</td>
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## Utility-Scale Wind Projects Completed during 2017

<table>
<thead>
<tr>
<th>State</th>
<th>Project Phase Name</th>
<th>Project Capacity (MW)</th>
<th>Turbine OEM</th>
<th>Turbine Model</th>
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<th>Project Owner</th>
<th>Power Purchaser</th>
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<tbody>
<tr>
<td>IL</td>
<td>Radford’s Run</td>
<td>305.80</td>
<td>Vestas</td>
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<td>E.ON Climate &amp; Renewables</td>
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<td>IN</td>
<td>Bluff Point</td>
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<td>Prairie</td>
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<tr>
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<td>Canton Mountain</td>
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<td>2.85-103</td>
<td>Patriot Renewables</td>
<td>Patriot Renewables</td>
<td>13 Municipal Electric Utilities</td>
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<td>MI</td>
<td>Apple Blossom</td>
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<td>Vestas</td>
<td>V126-3.45</td>
<td>Geronimo Energy; Sempra Renewables</td>
<td>Sempra Renewables</td>
<td>Consumers Energy Co</td>
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<td>Red Pine</td>
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<td>Vestas</td>
<td>V100-2.0; V110-2.0</td>
<td>EDF Renewable Energy; Infinity Wind Power</td>
<td>EDF Renewable Energy</td>
<td>Merchant Hedge Contract (MISO)</td>
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<td>Rock Creek</td>
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<td>Vestas</td>
<td>V110-2.0</td>
<td>Enel Green Power North America; Tradewind Energy</td>
<td>Enel Green Power North America</td>
<td>Kansas City Power &amp; Light; Kansas City Power &amp; Light Greater Missouri Operations</td>
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<td>City of Seward</td>
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<td>1.7-103</td>
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<td>City of Seward, NE</td>
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<td>NE</td>
<td>Cottonwood Wind</td>
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<td>1.7-100; 2.3-116</td>
<td>NextEra Energy Resources</td>
<td>NextEra Energy Resources</td>
<td>City of Fremont (40.59 MW); City of Beatrice (16.1 MW); South Sioux City (15.59 MW); Northeast NPPD (15 MW); City of Wayne (2.38 MW)</td>
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<td>NM</td>
<td>El Cabo</td>
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<td>V110-2.2</td>
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<td>Whirlpool Corporation</td>
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<tr>
<td>OH</td>
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<td>Goldwind</td>
<td>GW87/1500</td>
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<td>Whirlpool Corporation</td>
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<td>AW125/3150</td>
<td>Enel Green Power North America; Tradewind Energy</td>
<td>Enel Green Power North America</td>
<td>T-Mobile (159.5 MW); Grand River Dam Authority, Resold to Google Energy (139.75 MW)</td>
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<td>Redbed Plains</td>
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<td>G114-2.0; G114-2.1</td>
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<td>SWT-2.3-108; SWT-2.625-120</td>
<td>EDF Renewable Energy</td>
<td>EDF Renewable Energy</td>
<td>Kimberly-Clark (120 MW); Merchant (SPP) (34.58 MW)</td>
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</table>
### Utility-Scale Wind Projects Completed during 2017

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<th>Project Owner</th>
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<tr>
<td>OK</td>
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<td>297.80</td>
<td>GE Renewable Energy</td>
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<td>Enel Green Power North America; Tradewind Energy</td>
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<td>Anheuser-Busch (152.5 MW); Undisclosed (145.3 MW)</td>
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<td>V117-3.45; V126-3.45</td>
<td>Infinity Wind Power; NRG Energy</td>
<td>John Laing Group; NRG Energy</td>
<td>JPMorgan Chase (50.03 MW); Merchant Hedge Contract (50.03)</td>
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<td>EDP Renewables North America LLC</td>
<td>Dairyland Power Coop</td>
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