The American wind energy industry installed 1,661 megawatts (MW) in the second quarter of 2015, a record for second quarter installations. The 1,994 MW installed in the first two quarters of 2015 is more than double the capacity installed in the first half of 2014. The U.S. now has an installed wind capacity of 67,870 MW and over 49,000 wind turbines.

There are over 13,600 MW of wind currently under construction, continuing near-record levels of construction activity. Over 800 MW of new power purchase agreements (PPA) were also signed in the second quarter of 2015.
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Key Takeaways

2015 Wind Project Installations

- During the second quarter of 2015, the U.S. wind industry installed 845 turbines totaling 1,661 MW, a record for wind installations in the second quarter. These turbines were installed across 12 projects in five different states. The most capacity was installed in Texas (1,226 MW), followed by Oklahoma (150 MW), California (107 MW), Illinois (99 MW) and South Dakota (80 MW).

- For the year, the U.S. wind industry has installed 1,014 turbines, totaling 1,994 megawatts (MW). This total is more than double the 835 MW installed during the first half of 2014 but still falls short of historical installation trends.

- There are now 67,870 MW of installed wind capacity in the United States and over 49,000 wind turbines. Texas now has over 15,000 MW of installed capacity and California has over 6,000 MW.

Wind Power Construction Activity

- Wind developers reported more than 2,200 MW of new construction activity in the second quarter of 2015. In total, there is currently more than 13,600 MW of wind capacity under construction across 101 projects in 24 states. These results continue the trend of near-record construction activity.

- Approximately 50% of all wind construction activity is currently focused in Texas (6,800 MW). There are over 1,400 MW under construction in Oklahoma, over 1,000 MW under construction in Kansas, nearly 680 MW under construction in Iowa, and over 530 MW under construction in North Dakota.

Wind Power Purchase Agreements, Southeastern Investments and Corporate Purchasers

- Utilities and rural electric cooperatives signed over 800 MW of power purchase agreements (PPAs) for wind power in the second quarter of 2015, bringing total PPA contracts signed since the beginning of 2013 to more than 12,000 MW.

- Among the 12,000 MW of PPAs announced since the beginning of 2013, approximately 3,000 MW are currently online and 4,400 MW have not yet started physical construction.

- Southeastern utilities continue to invest in wind energy. Gulf Power and the Arkansas Electric Cooperative Corp. both signed PPAs in the second quarter of 2015 for 180 MW and 108 MW, respectively, to import wind energy into their states. The 180 MW Gulf Power contract marks the first approved wind PPA for the state of Florida.

- The second quarter of 2015 saw the commissioning of two utility-scale wind projects with corporate purchaser investment. Both the 98 MW Hoopeston wind farm in Illinois owned by IKEA and the 211 MW Mesquite Creek wind farm in Texas invested in by Mars, Inc. are now online.
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, uprated and repowered wind turbines. Wind capacity data for each year is continuously updated as information changes.
U.S. Wind Power Capacity Installations, by State

- <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

States and their respective capacities:

- **CA**: 6,018 MW
- **TX**: 15,635 MW
- **OK**: 3,932 MW
- **CO**: 2,593 MW
- **WA**: 3,075 MW
- **OR**: 3,153 MW
- **IA**: 5,708 MW
- **IL**: 3,667 MW
- **IN**: 1,745 MW
- **MI**: 1,531 MW
- **NY**: 1,749 MW
- **PA**: 1,340 MW
- **DE**: 9 MW
- **MD**: 160 MW

Other states with notable capacities include:

- **AK**: 62 MW
- **HI**: 206 MW
- **VT**: 119 MW
- **ME**: 440 MW
- **NH**: 171 MW
- **MA**: 107 MW
- **CT**: 9 MW
- **RI**: 107 MW
- **NC**: 29 MW
- **TN**: 29 MW

Capacity ranges:

- **<0 to 100 MW**: AK, HI, VT, ME, NH, MA, CT, RI, NC, TN
- **>100 MW to 1,000 MW**: CA, TX, OK, CO, WA, OR
- **>1,000 MW to 5,000 MW**: IA, IL, IN, MI, NY
- **>5,000 MW to 10,000 MW**: CA, TX
- **>10,000 MW**: TX
With 1,226 MW installed in Texas during the second quarter of 2015, the state now has over 15,600 MW in installed capacity, more than twice the installed capacity in any other state.

With 107 MW installed in the second quarter of 2015, California now has over 6,000 MW in installed capacity. Currently, 16 states have over 1,000 MW installed.

Given construction activity, Iowa is currently on pace to overtake California and become the second-ranked state in installed capacity by the end of 2015.
Wind Power Capacity Under Construction

- The second quarter of 2015 saw over 2,200 MW in new construction announcements, bringing total under construction capacity to 13,600 MW.* These projects are presumed to have taken steps to qualify for the PTC through safe harbor or physical construction.
- These results mark the third highest construction numbers in U.S. history, with activity in 24 states.

*Projects reported as under construction by AWEA are subject to change. A number of projects previously reported as under construction are no longer considered under construction, resulting in the observed drop in total under construction capacity.
• More than 13,600 MW of construction activity is underway across 101 projects in 24 states.
• Approximately 50% of the construction activity is located within Texas (>6,800 MW).
• There is more wind capacity under construction in Texas than the total installed wind capacity of any other state.
• Over 19% of construction activity is being reported from the Plains states, from Nebraska to Oklahoma.
• An additional 17% of construction activity is located in the Midwest, from North and South Dakota to Indiana and Michigan.
• Oklahoma saw the largest amount of new construction announcements in the second quarter of 2015, with 697 MW reported by developers.
## Utility-Scale Wind Projects Completed in 2015

<table>
<thead>
<tr>
<th>State</th>
<th>Project 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>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>IA</td>
<td>Carroll Area</td>
<td>20.00</td>
<td>Siemens</td>
<td>SWT-2.3-108</td>
<td>Own Energy</td>
<td>NJR Clean Energy Ventures</td>
<td>MidAmerican Energy</td>
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<td>NY</td>
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<td>Vergnet</td>
<td>GEV MP-R</td>
<td>New York State Thruway Authority</td>
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<td>Baffin*</td>
<td>202.00</td>
<td>Gamesa</td>
<td>G97-2.0</td>
<td>Iberdrola Renewables</td>
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<td>Merchant (ERCOT)</td>
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<td>TX</td>
<td>Keechi</td>
<td>110.00</td>
<td>Vestas</td>
<td>V100-2.0</td>
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<td>Enbridge</td>
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<td><strong>Second Quarter 2015</strong></td>
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<td>CA</td>
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<td>Vestas</td>
<td>V112-3.3</td>
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<td>V42</td>
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<td>Apex Clean Energy</td>
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*The 202 MW Baffin wind project was not included in the AWEA U.S. Wind Industry First Quarter 2015 Market Report.*
For more information on AWEA market analysis, please visit www.awea.org/marketreports where you can access older versions of the Quarterly Market Reports and see the latest Annual Market Report.


For a spreadsheet with underlying data or with any corrections, please contact Hannah Hunt at hhunt@awea.org