Technology Lightning Round: Wind

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With the installation of 1,994 MW so far in 2015, the U.S. wind industry has installed 67,870 MW of capacity.
Wind Capacity Installations, by State
Wind provided 28% of new generating capacity over the past 5 years.
Wind Energy Share of Electricity Generation, by State
Under Construction Activity

- Approximately 50% of construction activity is located in Texas (6,800 MW).

- Over 19% of construction activity is being reported from the Plains states and an additional 17% of activity is located in the Midwest.
More than 13,600 MW of wind projects under construction, including 2,200 MW commencing in the second quarter of 2015.
Strong long-term contracting activity continues in 2015
Growth in Non-Utility Purchasers of Wind
Over 500 Active U.S. Wind-Related Manufacturing Facilities
The Average 2014 Turbine

Average rotor diameter: 99.7 m

Average hub height: 82.4 m
The Evolution of Wind Turbine Technology
Wind Projects, by Hub Height

Note: Map does not show all U.S. wind projects, only those where data is available for hub height or rotor diameter.
National average contract price has dropped 66% between 2009 and 2014.
Federal Policy: Historic Impact of PTC Expiration on Annual Wind Capacity Installation

Incremental Capacity Additions (MW)
EIA: Wind lowest-cost solution for Clean Power Plan

Wind’s share of optimal compliance mix, 2020-2030
DOE Wind Vision: 20% Wind Energy by 2030

Figure 3. The Wind Vision Study Scenario, with contributions from land-based and offshore technology
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• With general questions on the report, please e-mail: stats@awea.org