

## Quick Facts: Wind Energy Generation, Capacity, and Public Policy among the Largest Wind Producing States, Ranked by Current Installed Capacity

State	Installed Wind Power Capacity (MW) <sup>1</sup>	Estimated Wind Energy Potential, Installed Capacity (MW) <sup>2</sup>	Estimated Wind Energy Potential, Annual Generation (GWh) <sup>2</sup>	RPS (Y/N) <sup>3</sup>	Renewable Portfolio Standard (RPS) % <sup>3</sup>	Financial Incentives for Manufacturing or Renewable Energy Systems <sup>4,5</sup>	Regulatory Policy - Permitting or Access <sup>4,5</sup>
Texas	21,044	1,901,530	6,527,850	Y	10,000 MW by 2025 (achieved)	<ul style="list-style-type: none"> <li>▪ Wind Energy Business Franchise Tax Exemption</li> <li>▪ Wind Energy Device Franchise Tax Deduction</li> <li>▪ Renewable Energy Systems Property Tax Exemption</li> </ul>	N
Iowa	6,952	570,714	2,026,340	Y	105 MW of generating capacity for investor owned utilities (IOUs)	<ul style="list-style-type: none"> <li>▪ Renewable Energy Equipment Sales Tax Exemption</li> <li>▪ Alternate Energy Revolving Loan Program</li> <li>▪ Property Tax Exemption for Renewable Energy Systems</li> <li>▪ Energy Replacement Generation Corporate Tax Exemption</li> <li>▪ Renewable Energy Production Corporate Tax Credits</li> </ul>	N
Oklahoma	6,645	516,822	1,788,910		15% by 2015 ( <i>Voluntary Target</i> )	<ul style="list-style-type: none"> <li>▪ Property Tax Exemption for Wind Generators</li> <li>▪ Zero-Emission Facilities Production Tax Credit</li> </ul>	Rules for owners of wind energy facilities
California	5,656	34,110	105,646	Y	33% by 2020; 40% by 2024; 45% by 2027; 50% by 2030	<ul style="list-style-type: none"> <li>▪ Sales and Use Tax Exclusion for Alternative Energy Manufacturing Program</li> </ul>	County ordinance standards
Kansas	4,931	952,371	3,646,590		15% by 2015-2019; 20% by 2020 ( <i>Voluntary Target</i> )	<ul style="list-style-type: none"> <li>▪ Renewable Energy Property Tax Exemption</li> </ul>	N
Illinois	4,026	249,882	763,529	Y	25% by 2025-2026	<ul style="list-style-type: none"> <li>▪ Property Valuation for Commercial Wind Energy Equipment</li> <li>▪ Sales Tax Exemption for Wind Energy</li> </ul>	Maximum setback limits
Minnesota	3,499	489,271	1,679,480	Y	26.5% by 2025 (investor-owned utilities); 25% by 2025 (other utilities)	<ul style="list-style-type: none"> <li>▪ Wind Energy Sales Tax Exemption</li> <li>▪ Wind and Solar-Electric (PV) Systems Exemption</li> </ul>	Easement considerations
Oregon	3,213	27,100	80,855	Y	25% by 2025 and 50% by 2040 (utilities with 3% or more of the state's load); 10% by 2025 and 5% by 2025 (utilities with 1.5% - 3% of the state's load)	<ul style="list-style-type: none"> <li>▪ Local Option - Rural Renewable Energy Development Zones</li> </ul>	Easement considerations and model local ordinance
Washington	3,075	18,479	55,550	Y	9% by 2016; 15% by 2020	<ul style="list-style-type: none"> <li>▪ Renewable Energy Manufacturing Program</li> <li>▪ Renewable Energy Sales and Use Tax Exemption</li> </ul>	N

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Colorado	3,026	387,220	1,288,490	Y	30% by 2020 (investor owned utilities) 10% or 20% for municipalities and electric cooperatives, dependent upon size	<ul style="list-style-type: none"> <li>▪ Sales and Use Tax Exemption for Renewable Energy Equipment</li> </ul>	N
North Dakota	2,846	770,196	2,983,750		10% by 2015 ( <i>Voluntary Target</i> )	<ul style="list-style-type: none"> <li>▪ Renewable Energy Corporate Tax Credit</li> <li>▪ Sales and Use Tax Exemption for Electrical Generating Facilities</li> <li>▪ Renewable Energy Property Tax Exemption</li> </ul>	Easement considerations
Indiana	1,897	148,228	443,912		10% by 2025 ( <i>Voluntary Target</i> )	<ul style="list-style-type: none"> <li>▪ Sales and Use Tax Exemption for Electrical Generating Equipment</li> </ul>	N
New York	1,829	25,781	74,695	Y	29% by 2015; 50% by 2030	<ul style="list-style-type: none"> <li>▪ NY Green Bank</li> <li>▪ Local Option - Wind Energy Systems Property Tax Exemption</li> </ul>	Wind energy toolkit
Michigan	1,760	59,042	169,221	Y	15% by 2021 (standard); 35% by 2025 (including energy efficiency and demand reduction)	<ul style="list-style-type: none"> <li>▪ Renewable Energy Renaissance Zones</li> <li>▪ Nonrefundable Business Activity Tax Credit</li> <li>▪ Refundable Payroll Tax Credit</li> <li>▪ Michigan Accelerating Technologies Energy Grant</li> </ul>	N
Wyoming	1,489	552,073	1,944,340	N	None		Regulations (e.g. permitting and production tax) <sup>6</sup>
Pennsylvania	1,369	3,307	9,673	Y	18% by 2020-2021	<ul style="list-style-type: none"> <li>▪ Wind and Geothermal Incentives Program</li> <li>▪ Alternative and Clean Energy Program</li> <li>▪ Property Tax Assessment for Commercial Wind Farms</li> </ul>	Model local ordinance
Nebraska	1,328	917,999	3,540,370	N	None	<ul style="list-style-type: none"> <li>▪ Sales and Use Tax Exemption for Renewable Energy Property</li> <li>▪ Property Tax Exemption for Renewable Energy Generation Facilities</li> </ul>	Easement considerations
<b>Total</b>	<b>74,585</b>						

- 1) The top 17 states account for 89 percent of total electric wind generation capacity installed in the United States. Source: American Wind Energy Association Q1 2017 Market Report
- 2) As reported by the National Renewable Energy Laboratory (NREL) within the U.S. Department of Energy, 2010. The estimates are based upon the windy land area with a gross capacity factor of 30% and greater at 80-m height above ground and the wind energy potential that could be possible from development of the available windy land area after exclusions. Exclusions include wilderness areas, parks, urban areas and water features. [http://apps2.eere.energy.gov/wind/windexchange/pdfs/wind\\_maps/wind\\_potential\\_80m\\_30percent.pdf](http://apps2.eere.energy.gov/wind/windexchange/pdfs/wind_maps/wind_potential_80m_30percent.pdf) accessed May 10, 2017
- 3) As reported by the National Conference of State Legislatures, April 2017.
- 4) As reported by the Database of State Incentives for Renewables & Efficiency, 2017
- 5) Does not include financial incentives related to small wind operations, non-commercial entities, or other projects (e.g., buildings efficiency grant programs)
- 6) Wyoming is the only state with a wind production tax, which is \$1.00 per MWh