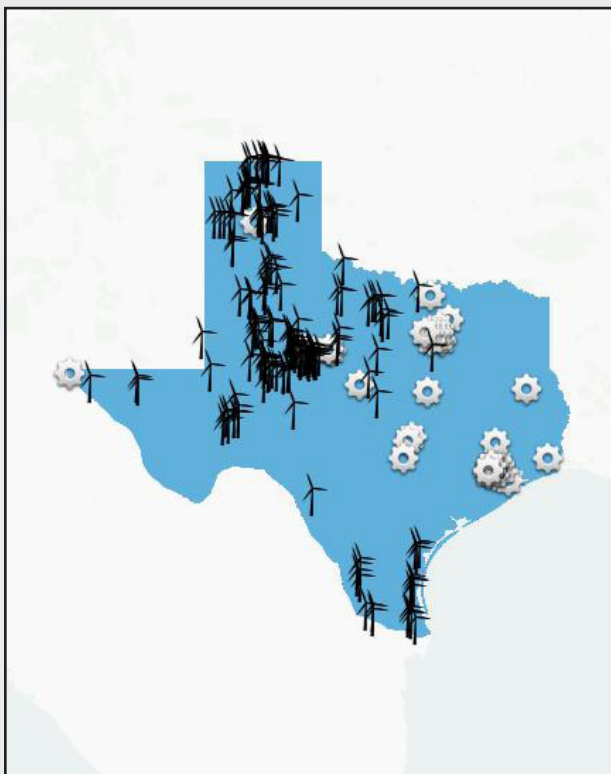


TEXAS WIND ENERGY



Texas is a national leader in the wind energy industry.

Texas ranks first in the country for both installed and under construction wind capacity, while supporting over 22,000 wind-related jobs. In fact, with over 21 gigawatts (GW) of wind in the state, only five countries have more wind power than Texas. The wind energy industry in Texas has provided over \$38 billion in capital investment and has thrived thanks to smart state policy, such as legislation that created Competitive Renewable Energy Zones (CREZ) for wind power transmission. The state is also home to at least 42 manufacturing facilities, including tower manufacturers Broadwind Towers and GRI Renewable Industries.



 Online Wind Project  Manufacturing Facility

Note: Calculations based on national and state averages.

BENEFITS Jobs & Economic

An investment in wind power is an investment in jobs, including jobs in operations and maintenance, construction, manufacturing and many support sectors. In addition, wind projects produce lease payments for landowners and increase the tax base of communities.

- 2016 direct and indirect jobs supported: 22,001 to 23,000
- Total capital investment through 2016: \$38.4 billion
- Annual land lease payments: >\$60 million

Wind-Related Manufacturing

The United States has over 500 manufacturing facilities producing products for the wind industry that range from blade, tower and turbine nacelle assembly facilities to raw component suppliers, including fiberglass and steel.

- Number of active manufacturing facilities in the state: 42

Wind Projects

- **Installed wind capacity:** 21,450 MW
- **State rank for installed wind capacity:** 1st
- **Number of wind turbines:** 12,077
- **State rank for number of wind turbines:** 1st
- **Wind projects online:** 131 (Projects above 10 MW: 120)
- **Wind capacity under construction:** 5,184 MW
- **Wind capacity in advanced development:** 1,698 MW

Current Wind Generation

During 2016, wind energy provided 12.63% of all in-state electricity production.

- **Equivalent number of homes powered by wind:** 5.3 million

Wind Generation Potential

The DOE Wind Vision Scenario projects that Texas could produce enough wind energy by 2030 to power the equivalent of 15.4 million average American homes.

- **Land based technical wind potential at 80 m hub height:** 1,418,439 MW
- **Land based technical wind potential at 110 m hub height:** 1,429,747 MW (Source: NREL)

Environmental Benefits

Generating wind power creates no emissions and uses virtually no water.

- **2016 annual state water consumption savings*:** 20.1 billion gallons
- **2016 equivalent number of water bottles saved:** 152 billion
- **2016 annual state carbon dioxide (CO₂) emissions avoided:** 38.9 million metric tons
- **2016 equivalent cars worth of emissions avoided:** 8.3 million

*Based on national average water consumption factors for coal and gas plants



Renewable Portfolio Standard

Texas established a renewable portfolio standard (RPS) in 1999, amending it in 2005. The current RPS requires 5,880 MW of renewable energy by 2015. The state also has a target of reaching 10,000 MW of renewable capacity by 2025, a target that the Texas wind energy industry met in 2010.