Colorado has been successful in attracting investment for wind energy manufacturing and large wind energy projects.

Colorado is a national wind energy leader. The state has grown its wind portfolio, generating the third highest percentage of power from wind of any state. Colorado has also attracted major manufacturing investment to the state, becoming the national hub for Vestas.

**WIND PROJECTS AND GENERATION**

- Currently online: 1,800 megawatts (MW)
- Added in 2011: 501 MW
- Added in 2010: 53 MW
- Wind projects in queue: 16,602 MW

Percentage of Colorado power provided by wind in 2010: 6.6%, eighth highest in the U.S.
Equivalent number of homes Colorado wind farms now power: Nearly 500,000.

Colorado's wind installed wind capacity grew nearly 39% in 2011, installing the sixth most new MW.

**COLORADO POLICY**

The Colorado Renewable Portfolio Standard (RPS) was enhanced in 2010 and requires investor-owned utilities and cooperatives to provide 30 percent of their 2020 electricity through renewable and/or recycled energy. Colorado is now ranked #9 for total installed capacity.

Published January 2012 | Calculations based on national and state averages

FOR MORE INFORMATION, PLEASE CONTACT: windmail@awea.org

AMERICAN WIND ENERGY ASSOCIATION
WWW.AWEA.ORG | 202.383.2500 | 1501 M St, NW, Suite 1000, Washington, D.C.
WIND ENERGY FACTS: COLORADO

WIND POTENTIAL
State wind resource: 387 GW at 80 meters heights
State potential wind generation: 1,288,490 GWh
Colorado's wind resource is ranked 12th in the U.S.
According to a resource assessment from the National Renewable Energy Lab, Colorado’s wind resource could provide nearly 25 times of the state’s current electricity needs.

ECONOMIC AND ENVIRONMENTAL BENEFITS
Investment in wind power is an investment in jobs, including jobs in operations and maintenance, construction, manufacturing and many support sectors. Wind energy provides numerous economic development benefits.

- Total direct and indirect jobs supported in 2010: 5,000-6,000
- Annual property tax payments by wind project owners: over $10 million
- Annual land lease payments: approximately $5.4 million

The wind power installed in Colorado will avoid 3.5 million metric tons of carbon dioxide annually and uses virtually no water.

MANUFACTURING SECTOR
Colorado has been successful in attracting major manufacturing for the wind industry. Vestas, the global leader in turbine manufacturing, has opened a facility in Colorado and plans to open three additional facilities. Additional suppliers have also announced plans to locate in Colorado.

- Manufacturing jobs at online and announced facilities: 3,000
- Manufacturing investment at online and announced facilities: over $700 million

There are at least 18 facilities in Colorado currently manufacturing for the wind industry.

EVENTS
Colorado exhibitors at the WINDPOWER 2011 Conference & Exhibition: 31
The 2010 AWEA Transmission and Siting Workshop was held in Colorado.

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AMERICAN WIND ENERGY ASSOCIATION
WWW.AWEA.ORG | 202.383.2500 | 1501 M St. NW, Suite 1000, Washington, D.C.
WIND ENERGY FACTS: Kansas

Kansas wind projects have created economic development for the state

The growing Kansas wind power sector has attracted Siemens, a major turbine manufacturer, to open a facility in the state.

Blue counties have wind projects. Green dots are online wind manufacturing facilities. Yellow dots are announced wind manufacturing facilities.

Wind Projects

Currently online: 1,274 megawatts (MW)
Added in 2011: 200 MW
Under Construction: 1,189 MW
Wind projects in queue: 13,191 MW

Kansas ranks 14th in overall wind installation nationally. Kansas is on track to almost double their installed capacity in 2012 and leads the nation with the most wind under construction.

Equivalent number of homes Kansas wind farms now power: 430,000

Current Generation

Percent of Kansas power by wind in 2010: 7.1%

Kansas ranked 5th in the US in 2010 for percentage of electricity derived from wind.

Potential

State wind resource: 952,371 MW (at 80 meters)

Kansas' wind resource is ranked 2nd in the US.

According to a resource assessment from the National Renewable Energy Lab, Kansas' wind resource could provide over 90 times the state's current electricity needs.

For more information, please contact: windmail@awea.org

American Wind Energy Association

WWW.AWEA.ORG | 202.383.2500 | 1501 M St. NW, Suite 1000, Washington, D.C.
ECONOMIC AND ENVIRONMENTAL BENEFITS

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

- Total direct and indirect jobs supported in 2010: 500-1,000
- Annual property tax payments by wind project owners: $3.7 million
- Annual land lease payments: $3.8 million

Generating wind power creates no emissions and uses no water. The wind power installed in Kansas will avoid 3.0 million metric tons of carbon dioxide annually.

MANUFACTURING SECTOR

Kansas attracted its first major wind energy manufacturing facility in the second quarter of 2009, when turbine manufacturer Siemens announced its first American nacelle assembly facility in Hutchinson, Kansas. Siemens invested $50 million in its new facility, which opened in November 2010, and will employ 400 workers. The effects of its investment will be felt throughout the Kansas supply chain, allowing an ever-increasing number of Kansas firms to participate in the wind energy industry. At least seven facilities in Kansas currently manufacture for the wind industry and an additional four new facilities are announced.

KANSAS POLICY

Kansas enacted a renewable portfolio standard (RPS) in May 2009, requiring certain utilities to generate or purchase 20 percent of their electricity from renewable resources by 2020.

EVENTS

Kansas exhibitors at the WINDPOWER 2011 Conference & Exhibition: 9

FOR MORE INFORMATION, PLEASE CONTACT: windmail@awea.org

AMERICAN WIND ENERGY ASSOCIATION
WWW.AWEA.ORG | 202.383.2500 | 1501 M St, NW, Suite 1000, WASHINGTON, D.C.
Wind is creating economic development in New Mexico

**Wind Projects**

- Currently online: 750 megawatts (MW)
- Added in 2011: 50 MW
- Added in 2010: 102 MW
- Wind projects in queue: 14,135.5 MW

New Mexico ranks 17th in total wind capacity installed in the US.

**Wind Generation**

- Percentage of New Mexico power from wind in 2010: 5.0%
- New Mexico ranked 11th in the US in 2010 for percentage of electricity derived from wind.

Equivalent number of homes New Mexico wind farms now power: 200,000

**Wind Resource**

- State wind resource: 492,083 MW at 80 meters hub heights

New Mexico's wind resource is ranked 10th in the US.

According to a resource assessment from the National Renewable Energy Lab, New Mexico's wind resource could provide nearly 75 times the state's current electricity needs.

**Economic and Environmental Benefits**

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

- Total direct and indirect jobs supported in 2010: 100-500
- Annual property tax payments by wind project owners: $7.6 million
- Annual land lease payments: over $2.2 million

Generating wind power creates no emissions and uses virtually no water. The wind power installed in New Mexico will avoid 1.5 million metric tons of carbon dioxide emissions annually.

**New Mexico Policy**

New Mexico passed a renewable portfolio standard (RPS) in 2007, requiring utilities to generate 20 percent of their 2020 sales from renewable resources.

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For more information, please contact: windmail@awea.org

American Wind Energy Association
WWW.AWEA.ORG | 202.383.2500 | 1501 M ST. NW. SUITE 1000. WASHINGTON, D.C.
Continuing to develop Oklahoma’s incredible wind resource will provide economic development.

**Wind Projects**

- Currently online: 2,007 Megawatts (MW)
- Added in 2011: 525 MW
- Added in 2010: 352 MW
- Under construction: 393 MW
- Wind projects in queue: 14,677 MW

Oklahoma added the 5th most new wind capacity in 2011 and is currently the state with the 8th most installed wind capacity overall in the US.

**Wind Generation**

- Percentage of Oklahoma power provided by wind in 2010: 5.1%
- Oklahoma ranked 10th in the US in percentage of electricity from wind in 2010.
- Equivalent number of homes Oklahoma wind farms now power: 610,000

**Wind Resource**

- State wind resource: 516,822 MW at 80 meter hub heights
- Oklahoma’s wind resource is ranked 9th in the US.

According to a resource assessment from the National Renewable Energy Lab, Oklahoma’s wind resource could provide nearly 31 times the state’s current electricity needs.
ECONOMIC AND ENVIRONMENTAL BENEFITS

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

- Total direct and indirect jobs supported in 2010: 1,000-2,000
- Annual property tax payments by wind project owners: over $14 million
- Annual land lease payments: $7.5 million

Generating wind power creates no emissions and uses virtually no water. The wind power installed in Oklahoma will avoid 4.3 million metric tons of carbon dioxide emissions annually.

MANUFACTURING SECTOR

In addition to small manufacturers, Oklahoma is already home to two major wind energy manufacturing facilities. DMI Industries, a major wind turbine tower manufacturer, opened a facility in Tulsa in 2007. Bergey, one of the foremost small wind turbine manufacturers, has its facility in Norman. In June 2010, Eagle Claw Fabrication announced a new wind tower manufacturing facility in Muskogee.

EVENTS

Oklahoma exhibitors at the WINDPOWER 2011 Conference & Exhibition: 6
Texas is the national leader in wind installations and is a manufacturing hub for the wind energy industry

The wind energy industry in Texas has created thousands of jobs and provided numerous economic and environmental benefits.

Blue counties have installed wind projects. Green dots are online wind energy manufacturing facilities. Yellow dots are announced manufacturing facilities. (Small dots show 1 facility, medium dots represent 2-5 facilities and large dots represent 5-10 facilities.)

**Wind Projects**

Currently online: 10,337 Megawatts (MW)
Added in 2011: 270 MW
Added in 2010: 680 MW
Under construction: 847 MW
Wind projects in queue: 63,504 MW

Texas is the national leader in overall wind installations and is the first state to reach 10,000 MW of wind energy installations. Texas is home to seven of the nation’s top ten largest wind farms, including four of the top five.

**Generation and Potential**

Percentage of Texas power provided by wind in 2010: 6.4%
Equivalent number of homes Texas wind farms now power: over 2.7 million
Texas is home to the top two 2010 wind Congressional districts. The Texas 19th is number one and the 11th is second.
State wind resource: 1,901,530 MW at 80 meters
Texas’ wind resource is ranked first in the US.

According to a resource assessment from the National Renewable Energy Lab, Texas’ wind resource could provide 19 times the state’s current electricity needs.

Published January 2012 | Calculations based on national and state averages

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ECONOMIC AND ENVIRONMENTAL BENEFITS

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

- Total direct and indirect jobs supported in 2010: 8,000-9,000
- Annual property tax payments by wind project owners: $115 million
- Annual land lease payments to local landowners: $31 million

Generating wind power creates no emissions and uses virtually no water. The wind power installed in Texas will avoid nearly 19 million metric tons of carbon dioxide emissions annually.

MANUFACTURING SECTOR

Texas is a manufacturing leader for the wind energy industry. The state is home to numerous wind energy manufacturers, including wind turbine manufacturer DeWind, five major tower manufacturers, blade manufacturer Molded Fiber Glass and many component suppliers. At least 35 Texas facilities currently manufacture components for the wind energy industry. In addition to the over one thousand manufacturing jobs already online in Texas, six more wind energy manufacturing facilities have been announced for the state.

TEXAS POLICY

Texas established a renewable portfolio standard (RPS) in 1999 and it was amended in 2005. The current RPS provisions require 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 wind energy industry met in 2010.

EVENTS

Texas exhibitors at the WINDPOWER 2011 Conference & Exhibition: 100
The 2010 WINDPOWER in Dallas, TX attracted 20,000 participants, making it the world's largest windpower show.

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