West Texas Wind Development

The Winds of Texas are upon you!

Sweetwater/ Nolan County, Texas

Ports-to-Plains Annual Conference
Del Rio, Texas
October 1-3, 2008

Presenter: Ken Becker
The Old and the New
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- Nolan County has 1,253 towers – 1903 MW
- Taylor County has 324 towers – 545 MW
- Mitchell County has 105 towers – 106 MW
- Scurry County has 287 towers – 414.5 MW

- Total MW in the Four County Region of West Texas – 2968.5 MW

- Texas has approximately 6000 MW

- The United States has approximately 20,000 MW
1999 Year End Wind Power Capacity (MW)

Total: 2,500 MW
(Updated 12/31/1999)

Data from the American Wind Energy Association (AWEA) and Global Energy Concepts (GEC) database.

U.S. Department of Energy National Renewable Energy Laboratory

Wind Power Capacity
Megawatts (MW)
- 1,000 - 2,100
- 100 - 1,000
- 20 - 100
- 1 - 20

State and Capacity:
- California: 1,646 MW
- Texas: 180 MW
- Iowa: 243 MW
- Minnesota: 273 MW
- Wisconsin: 23 MW
- Oregon: 25 MW
- Wyoming: 73 MW
- Colorado: 22 MW
- Kansas: 2 MW
- New Mexico: 1 MW
- Nebraska: 3 MW
- Vermont: 6 MW
- Hawaii: 2 MW

Inset maps for Alaska and Hawaii.
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• Nolan County Tax Base

• 1999 – Pre-Wind - $500 million

• 2008 - $2.3 Billion
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• **Wind Related Primary Jobs:**

  • Construction – data collection, site preparation, road work, trenching, excavation, concrete, erection, crane services, transportation services, pilot cars

  • O&M, blade repair, parts supply, tool rental, communications, training, support personnel (management, office staff, warehouse, parts runners, etc.)
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- Nolan County Employment Numbers

- It is estimated that Nolan County has approximately 1100 people working directly in the wind industry in 2008.
- The unemployment rate in Nolan County is 4.1%
- There are currently 155 job postings and 211 job openings at the local TWC office (not including opens not posted at the TWC)
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Businesses that benefit from Wind

- Hotels/Motels/Restaurants
- Real Estate Sales/Rental/Apartments
- RV lots
- Printing/Graphic Design
- Office Supplies/furniture
- Automotive/Truck Repair
- Training
- Laundromats and on and on!
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• What is needed?

• Housing
• Office Space
• Warehouse Facilities
• Transportation
• Training
• Warm Bodies
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• Opportunities

• Housing (sales and rental)
• RV Parks
• Increase in Property Values
• Elevated Pay Scales
• Young Families Returning home
• Support Services
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• **So you want to get into the wind business!**

• What do I do?

• How do I go about it?
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• **4 Important Steps**

  • Land: leased land, access to the property & right to capture the wind
  • Wind Data: Engineering data to prove the presence of constant wind (at least 7.2 meters* per second w/ a two year average)
  • Interconnect agreement/Transmission line access
  • Power Purchase Agreement (PPA)
  • (* 1 meter per second = 2.237 mph)
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• **How does this effect the Ports-to-Plains?**

• It takes approximately 8 trucks per tower to haul the major parts (not including the rebar, concrete, road materials, crane, electrical components, etc.)

• T. Boone Pickens is going to build 4000 MW or 2667 – GE 1.5 MW

• It will take approximately 21,336 trucks to haul the major parts!

• It will take at least 42,672 Pilot Cars!
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