
Sargent & Lundy Services:

- Transmission Line Engineering & Design
 - Substation Engineering & Design
 - Collection System Engineering & Design
 - Material and Equipment Procurement Support
 - Operating Procedures
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Sargent & Lundy performed engineering for BP Wind Energy's Trinity Hills & Sherbino Mesa II Wind Farm Projects located in Texas. Clipper 2.5 MW wind turbines are used on both projects.



The Trinity Hills Wind Farm is located in Archer and Young Counties in north central Texas. Phase I is 225 MW.

S&L's scope of work for this project included engineering and design of:

- The 345/34.5 kV Project Substation.
- 34.5 kV underground collection system.
- 3.5 miles of 345-kV transmission line.

The Sherbino Mesa II Wind Farm is located in Pecos County in southwestern Texas. Phase II is 150 MW.

S&L's scope of work for this project included engineering and design of:

- The 138/34.5 kV Project Substation.
- 138 kV Junction Switchyard.

- 34.5 kV overhead and underground collection system.
- 10 miles of 138 kV transmission line.

The substation scope of work included electrical and structural engineering, grading design, support for procurement of material and equipment and preparation of substation operating and living procedures. The collection system scope of work included electrical studies, cable sizing, equipment selection and design drawings. Transmission line scope of work included transmission line structure spotting, transmission line design and support for procurement of major materials.

S&L and the BP Wind team coordinated with Oncor and Texas New Mexico Power, respectively, for interconnection of the Trinity Hills and Sherbino Mesa II projects to their transmission systems.

Engineering was initiated in August 2010 on Trinity Hills and October 2010 on Sherbino Mesa II. Engineering drawings for both projects were issued for construction in March 2011.

Both projects are scheduled to be in service by fall 2011.

Based in Houston, TX, BP Wind Energy North America is a principal owner and operator of wind power facilities with interests in ten operating wind farms. BP Wind Energy has a gross generating capacity of over 1,300 MW - enough carbon-free electricity to power approximately 400,000 average American homes annually.