

PROJECT CASE STUDY

BLUE GRASS WIND FARM: GENTRY SUBSTATION

In June 2006, Lectrus shipped an equipment center to the \$85 million wind farm project in Gentry County, Missouri. The Blue Grass Wind Farm, one of three recently built in the area, covers about 10,000 acres and is designed to generate electricity from slower wind speeds present in this area of the Midwest. The project was developed by Wind Capital Group and financed by John Deere Wind Energy. Suzlon Energy, makers of the 34.5 kV wind turbines, also operates and maintains the turbines. Northwest Electric Power Cooperative, a wholesale power supplier for six regional and 51 rural electric cooperatives in Missouri, Iowa and Oklahoma, distributes the electricity. Farmers hosting wind turbines on their land receive an annual lease payment.

The switchyard, which is where the Lectrus equipment center is located on the project, serves to step up the voltage to 161 kV. Our equipment center, which contained a fiber-optic interface cabinet, a Supervisory Control and Data Acquisition (SCADA) system, relays, battery racks, an eye wash station, and various panels and breakers, protects the equipment from precipitation, wind, temperature fluctuations and other environmental stresses during operation.

Lectrus provided a watertight, fully integrated 14 ft x 40 ft electrical equipment center for the project. Working with our customer, we created a custom-engineered solution for this important and rapid growing market application. Some of the many advantages of a robust, engineered Lectrus electrical equipment center over conventional site-built structures include:

- Saves money.
- Saves time and hassle
- Provides design flexibility.
- Meets specifications.
- Guarantees quality craftsmanship.
- Assures long-term performance.

For more information about our company, products and services, or to request a proposal for your next project, please visit lectrus.com or send an e-mail to sales@lectrus.com.

PROJECT PROFILE

// PROJECT //

Blue Grass Wind Farm: Gentry Substation

// LOCATION //

Gentry County, Missouri

// MARKET SEGMENT //

Renewable Energy

// EQUIPMENT PROTECTED //

Low and medium voltage switchgear and motor control centers

// PRODUCT //

Equipment Center

// ENCLOSURE SIZE //

14 ft x 40 ft

// DATE COMMISSIONED //

June 2006

// CUSTOMER //

EP2

// OWNER //

Northwest Electric Power Cooperative



lectrus

ENGINEERED TO SPEC. BUILT TO LAST.

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