

WES Engineering – Assisting You

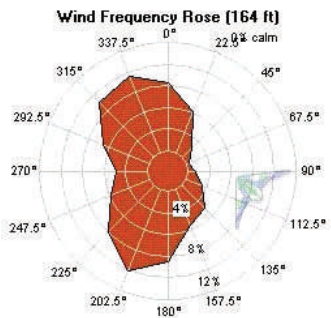
We work for you, at your pace. The end goal is a money making wind project that will make you and your community happy.

Relevant Experience:

- 9 years experience in commercial scale wind development
- Worked on projects ranging from 100 kW to 300 MW
- Assisted in turbine operations for two 12 MW wind projects
- Presented one day workshop on siting commercial turbines
- Attended one week turbine maintenance/ service training
- Certified Professional Engineer since 1997
- Prepared successful USDA grant applications for \$1.2 mil.
- Installed and repaired met equipment, from 50-80m tall

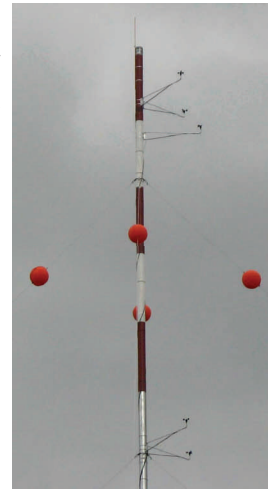


Wind Measure and Predict



WES Engineering can help find the optimum site for your wind turbine, helping to find the best wind and least cost interconnect and then getting the permits needed to allow the project to be built.

- WIND DATA ANALYSIS
- SODAR
- DATA ACQUISITION



Wes Slaymaker, P.E. Project Engineer

Brief Resume

- 1991: Bachelor of Mechanical Engineering
- 1991-2000: Engineer designing fluid powered equipment, pumps and actuators
- 2000: Started wind project development work, in Minnesota
- 2002: Incorporated WES Engineering LLC
- 2004: Full time wind work for projects from 1.65-25 MW at WES Engineering
- 2004-2009: Developed 2-300MW wind projects from for clients including schools, municipal utilities and private companies



Wes Slaymaker, P.E. - atop a turbine, in Oct.2000, while attending an NEG-Micon turbine Service and Operations training in Randers, Denmark.

Wind Project Development Services

Software Modeling– Wind Specific

- WASP Modeling
- Shadow Flicker modeling
- Noise modeling
- Turbine visual simulations

Wind Measurement

- Met Towers 40-80m tall
- Wind data processing
- Data Analysis– production estimates

SODAR– Sound Doppler Wind Measurements

- Setup and operate at your site 2 months– 2yrs
- Measure wind speeds up to 200m high
- Take the guesswork out of wind shear

Feasibility Studies

- 20 year pro forma
- Complete estimated expenses
- Worst/Best year performance estimates

Partner with experienced professionals

- Legal: contracts, PPA's, TSA's etc
 - Electrical: interconnect design
 - Construction: foundations, cranes
 - Financing: Corporate equity and banks
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WIND ENERGY SYSTEMS ENGINEERING

Wind Energy Systems Engineering



Professional Wind Project
Development Services
