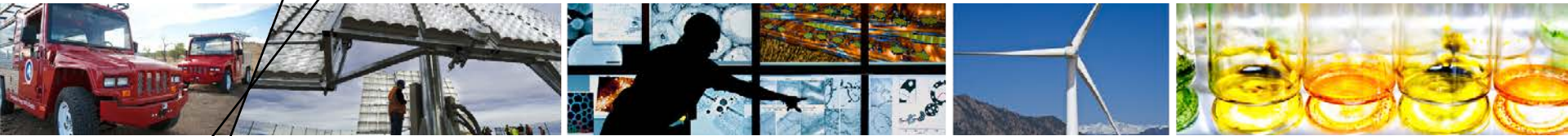


Small Wind Site Assessor Guidelines Document



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WINDEXchange Webinar

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National Renewable Energy Laboratory, Golden, Colorado

The Small Wind Site Assessor Guidelines is...

- **A guideline, not a manual**
- **Provides a framework for:**
 - Required skills for small wind site assessment
 - The necessary steps in developing an assessment
 - Available resources for wind data and site conditions
 - Results reporting expectations.

Background and Motivation for Document

Small wind has a history of poor energy production estimates resulting from:

- **Overly optimistic power curves**
 - Solved with third-party verified power curves.
- **Insufficient adjustments to wind speed for site conditions**
 - Small wind site assessor guidelines provide a complete set of potential adjustments to wind resource estimates to establish consistent expectations
 - Guidelines also provide references to sources for processes that can be used when making wind resource adjustments and energy production estimates.

Content

- **Assessor qualifications (skill set)**
- **Site evaluation and description (from site visit)**
- **Wind resource data and production estimates**
- **Site assessment report (with links to samples)**
- **Glossary**
- **References**
- **Sample checklist**
- **Case studies.**

Wind Data and Energy Production Estimates

Guide provides more detail on the core activity of obtaining wind data and developing production estimates

- **Wind data sources**
- **Adjustments for topography**
- **Wind shear adjustment**
- **Turbulence intensity**
- **Gross annual energy production estimate**
- **Net annual energy production estimate.**

Timeline for Completion

- **Out for final expert review (end of 2014)**
- **Incorporate review comments (January 2015)**
- **Send to communications (February 2015)**
- **Release (March 2015).**

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Photo by Dennis Schroeder, NREL ~~Image Gallery~~ #19901