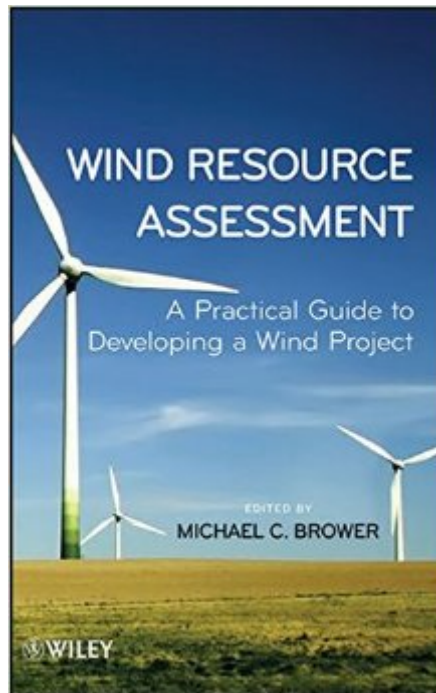# Wind Resource Assessment: A Practical Guide To Developing A Wind Project

Synopsis

A practical, authoritative guide to the assessment of wind resources for utility-scale wind projects—authored by a team of experts from a leading renewable energy consultancy The successful development of wind energy projects depends on an accurate assessment of where, how often, and how strongly the wind blows. A mistake in this stage of evaluation can cause severe financial losses and missed opportunities for developers, lenders, and investors. Wind Resource Assessment: A Practical Guide to Developing a Wind Project shows readers how to achieve a high standard of resource assessment, reduce the uncertainty associated with long-term energy performance, and maximize the value of their project assets. Beginning with the siting, installation, and operation of a high-quality wind monitoring program, this book continues with methods of data quality control and validation, extrapolating measurements from anemometer height to turbine height, adjusting short-term observations for historical climate conditions, and wind flow modeling to account for terrain and surface conditions. In addition, Wind Resource Assessment addresses special topics such as: Worker safety Data security Remote sensing technology (sodar and lidar) Offshore resource assessment Impacts of climate change Uncertainty estimation Plant design and energy production estimatio Filled with important information ranging from basic fundamentals of wind to cutting-edge research topics, and accompanied by helpful references and discussion questions, this comprehensive text—designed for an international audience—is a vital reference that promotes consistent standards for wind assessment across the industry.

Book Information

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Customer Reviews

This is a great book on wind resource assessment for anyone in the wind energy field. It's worth having a copy!

Among ather problems, the copy I received is missing pages 41-60!

It does not contain any new, state-of-art information. It can be used just as a very generic reference manual but all its content can be found somewhere else in the web.

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