

Photo Courtesy of Vestas Wind Systems A/S

Summary

The AMS Renewable Energy Subcommittee (RES) publishes a quarterly paper in North American Wind Power magazine to inform the wind power industry of atmospheric phenomena that affect wind farm development and operations.



"North American Windpower has enjoyed its relationship with the American Meteorological Society. With article topics ranging from wind shear to stability, AMS has lent a scientific credibility in our assessment and forecasting coverage, which in turn, added to the magazine's standing in the wind industry."

- Mark Del Franco, Editor

1) AWS Truepower. 2) AMS Policy Program. 3) University of Colorado at Boulder. 4) NOAA/ESRL. 5) Integrated Environmental Data.

Towards an Enlightened Wind Power Industry: Utilizing Popular Media

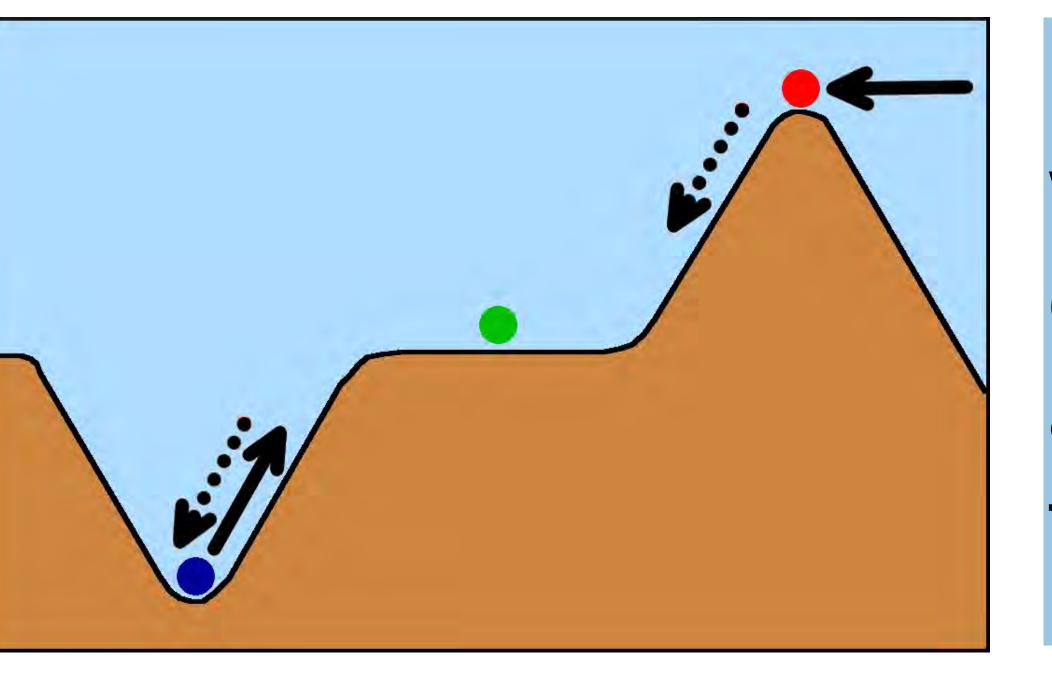
J. M. Freedman¹, E. Klicka², J. K. Lundquist³, M. Marquis⁴, K. E. Moore⁵

White Papers

- Wind Shear and Why It Matters (June 2012)
 by J. M. Freedman and K. E. Moore
- How Turbulence Can Impact Power Performance (September 2012)
 by A. Clifton and J. K. Lundquist
- Why Atmospheric Stability Matters to Assessment and Operation (January 2013) by S. Baidya Roy and J. Sharp
- Upcoming: Remote Sensing (Spring 2013)

AMS RES and its Process

The AMS Renewable Energy Subcommittee (RES) is part of the AMS Board of Enterprise Economic Development. The subcommittee promotes growth of the weather and climate enterprise and the development of renewable energy use in the U.S. Authors aim to inspire readers to appreciate the dynamic nature of the atmosphere. They explain concepts in plain language and adhere to a rigorous drafting and approval schedule. The AMS Policy Program serves as a liaison to editorial staff and provides project management support.



Simple graphics in the white papers explain complex concepts like atmospheric stability to a lay audience.

This diagram, created by S. Baidya Roy for a white paper with J. Sharp, illustrates that objects can be stable (blue), neutral (green), or unstable (red).

The Magazine



We are leveraging
North American
Windpower's reach into the broad range of disciplines we intend to support. 26,000 managers, developers, financiers, manufacturers, service providers, land owners and regulators read NAWP.



Photo Courtesy of Vestas Wind Systems A/S

Results

By leveraging the collective scientific expertise of its membership, the AMS Renewable Energy Subcommittee (RES) has delivered greater understanding of scientific concepts to industry practitioners. This knowledge can influence decisions made by key industry players, thereby extending the life of turbines, seeing the best sites chosen for projects, and increasing the power production of farms.

Extending the Program

The model that the RES pioneered in this white paper program may be applied in other vertical sectors. Other AMS interest groups could draw on this approach and enlighten decision makers who would benefit from deeper understanding of relevant principles of atmospheric science. The AMS Water Resources Committee is currently considering a similar white paper program.

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