



Distributed Generation Wind Assessment

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What is distributed wind?

Distributed wind is a type of wind energy technology that is developed as a distributed energy resource to contribute maximum societal, economic, and power system benefits. The Wind Energy Technologies Office's (WETO) distributed wind research program is advancing this technology.

What is PNNL's distributed wind research?

PNNL's distributed wind research, funded by the Department of Energy's Wind Energy Technologies Office (WETO), supports WETO's goal of advancing wind energy technology as a distributed energy resource to contribute maximum societal, economic and power system benefits.

How can distributed wind energy help a community?

Distributed wind energy has the potential to diversify local energy sources to help provide clean renewable energy in your community. Click on the interactive animation or read a text version of the use cases.

What is WETO's research in distributed wind systems integration?

WETO's research on distributed wind systems integration seeks to develop and validate wind technology as a plug-and-play resource with solar, storage, and other distributed energy resources to support grid system reliability and enhanced power system resilience.

To address this issue, this paper proposes a novel assessment model for DWGHC that considers the spatial correlations between distributed generation (DG) outputs.

Abstract Distributed wind projects, which are connected at the distribution level of an electricity system or in off-grid applications to serve specific or local energy needs, often rely solely ...

To support streamlined adoption of distributed wind energy technologies, PNNL conducts a range of research in market analysis, strategic and technical engagement, wind resource assessments, ...

To resolve the substantial uncertainty in future capital cost estimates for distributed wind applications, we develop an analytical method that forms the basis for our estimates.

To address the shortcomings in the current generation of distributed wind resource assessment and



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performance estimation tools, the U.S. Department of Energy has funded a multilab team to focus on ...

While their utility-scale counterparts can afford in-depth wind resource site assessments, DW relies on less computationally expensive models and survey methods to make estimations of the available ...

A multilaboratory project, WindWatts improves wind resource assessments using modern computational processes and data, developing a tool that makes onsite energy generation more accessible to all ...

Drop a pin anywhere you like and quickly and easily assess the wind resource and energy generation potential at that site.

The Distributed Wind Resource Hub includes general information about distributed wind energy, project funding and technical assistance opportunities, case studies of successful distributed wind energy ...

The WSJO model constructed in this study accounts for wind resource output uncertainty and dynamic correlation, aligning more closely with actual distributed generation output and ...

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