



New distributed wind power generation system

What is a distributed wind energy installation?

A distributed wind energy installation is defined by its technology application, not its size, and is typically smaller than 20 MW. This type of installation is explained in this animation and illustrates how a turbine at a residential home can offset its energy usage.

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.

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.

How does distributed wind power generation affect hybrid energy storage systems?

The distributed wind power generation model demonstrates variations in load and power across diverse urban and regional areas, thereby constituting a crucial factor contributing to the instability of hybrid energy storage systems.

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.

Where are distributed wind turbines connected?

Wind turbines used as a distributed energy resource--known as distributed wind--are connected at the distribution level of an electricity delivery system (or in off-grid applications) to serve on-site energy demand or support operation of local electricity distribution networks.

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