



# Wind power is distributed power generation





## Overview

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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. The Wind Energy Technologies Office's (WETO) distributed wind research program is advancing wind energy technology as an accessible, affordable distributed energy resource option for consumers. Distributed wind is a valuable tool in meeting local energy.



## Wind power is distributed power generation



### [Distributed Wind Energy: What It Is and How It Is Beneficial](#)

Distributed, or small wind, energy can be generated at tens of millions of locations in the U.S. alone and offers a highly efficient way to meet the energy needs of businesses across the country.

### Distributed Wind 101

Unlike utility-scale wind farms, which often provide electricity to distant cities or towns, the electricity generated by distributed wind turbines is generally used on-site or to serve local loads on the same ...



Standard 20ft containers



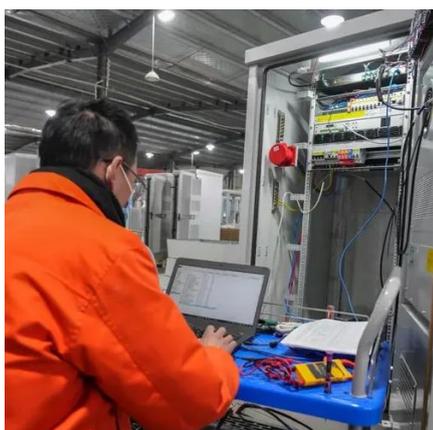
Standard 40ft containers

### What is Distributed Wind Energy?

What is Distributed Wind Energy? Distributed wind (DW) energy systems offer reliable electricity generation in a wide variety of global settings, including households, schools, farms and ranches, ...

### [Distributed Wind , Electricity , 2024 , ATB , NLR](#)

The U.S. Department of Energy's (DOE's) Wind Energy Technologies Office defines distributed wind in terms of technology application, based on a wind plant's location relative to end-use and power ...



## [What Is Wind Power? Complete Guide to Generation, Types](#)

Learn what wind power is, how wind turbines generate electricity, key system types, benefits, and real-world applications in modern renewable energy systems.

### **Distributed Wind**

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 ...



### **Distributed Wind**

Wind turbines used as distributed energy resources--also called distributed wind--produce electricity that is consumed on-site or locally, as opposed to large, centralized wind farms that generate bulk ...

### **What is Distributed Wind?**



While construction can require access to a lot of land, very little land is displaced by wind turbine foundations, so land around the foundations can be used for productive purposes (e.g., farming)



### Wind as a Distributed Energy Resource

Distributed wind projects produce electricity that is consumed on-site or locally, as opposed to large, centralized wind farms that generate bulk electricity for distant end-users. However, wind technology ...

### Distributed Wind Research , Wind Research , NLR

NLR researches distributed and small wind technologies for onsite power generation applications. NLR's distributed wind efforts support the entire innovation pipeline, including design, ...





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