

Wide voltage inverter production





Overview

What is an inverter based resource?

NERC uses the term “inverter-based resource” to refer generally to BPS-connected facilities that have a power electronic interface between the ac grid and the source of electricity. Copyright 2023 North American Electric Reliability Corporation. All rights reserved.³ What are the key components of inverter-based resources?

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Do distributed energy resources use inverter technology?

Distributed energy resources may or may not use inverter technology to interface with the ac grid; however, they are distinctly different than BPS-connected inverter-based resources (connected to transmission and sub-transmission levels).

What is the difference between energy source and inverter?

- Energy source: The power sources that convert one form of energy into dc electricity (e.g., solar arrays, wind turbines, batteries).
- Inverter: The power electronic device that converts the dc electricity into ac electricity, which involves the software controls that dictate how the resource responds to grid events.

Are inverter-based resources a good source of energy?

Consistent energy production levels from inverter-based resources (mainly renewable, variable energy resources) are still relatively low; however, even today, instantaneous penetrations* of inverter-based resources are reaching very high levels (70+%) across multiple areas in North America.



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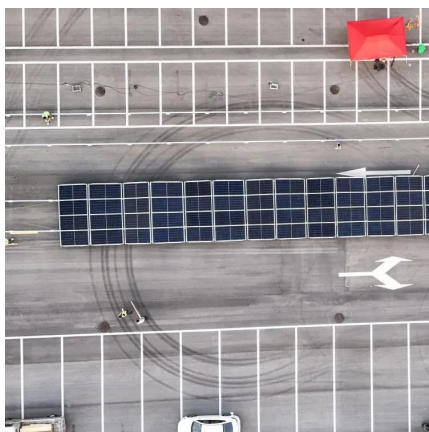


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