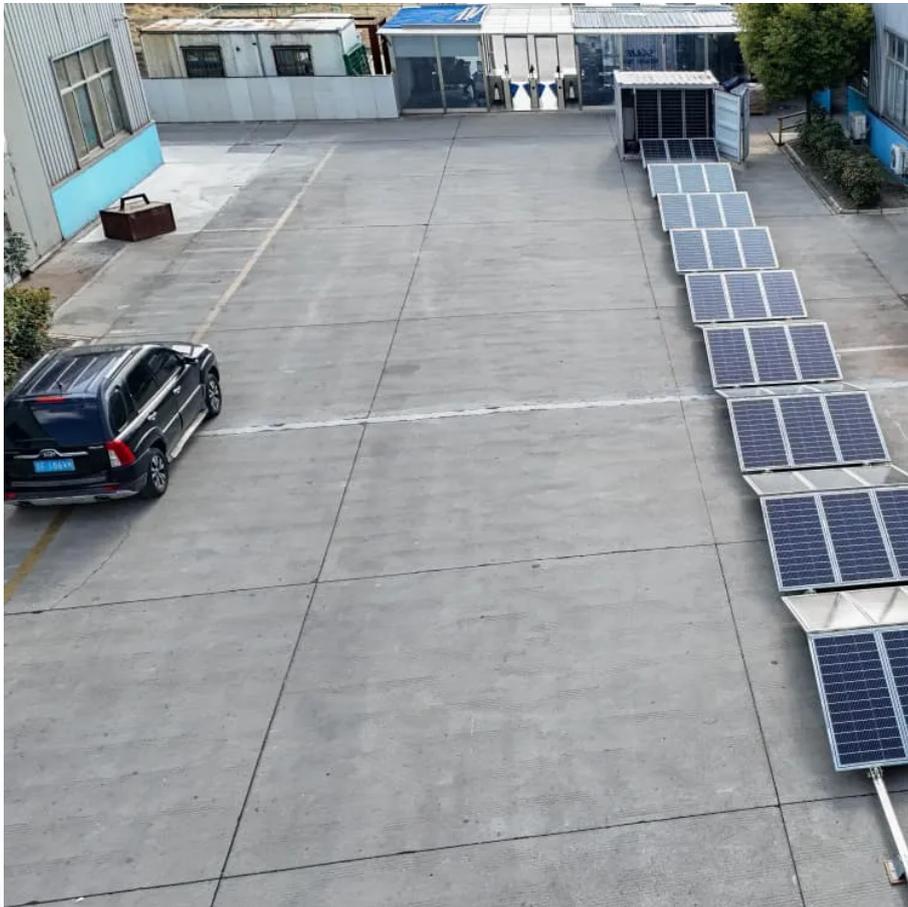


Base station wind power supply load voltage





Overview

How is voltage stability assessed in a wind farm?

The voltage, reactive power and active power of each bus in the system are collected for voltage stability assessment. The capacity of the wind farm is 200 MW and the power factor is set as 0.99. The power flow analysis results and voltage distribution of the test can be demonstrated in Fig. 4, Fig. 5, respectively. Fig. 3.

What is a base load power station?

The total load on a power station consists of two parts viz., base load and peak load. In order to achieve overall economy, the best method to meet load is to interconnect two different power stations. The more efficient plant is used to supply the base load and is known as base load power station.

What is the difference between base load and peak load power station?

The more efficient plant is used to supply the base load and is known as base load power station. The less efficient plant is used to supply the peak loads and is known as peak load power station. There is no hard and fast rule for selection of base load and peak load stations as it would depend upon the particular situation.

Does wind power affect base load?

Wind power has no effect on base load. However, since base load providers can not be ramped down, if wind turbines produce power when there is no or little peak load, the extra electricity has to be dumped (e.g., into the ground) or the wind turbines turned off ("curtailment"). How does wind power affect peak load?



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Base load and Peak Load on Power Station:

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WIND LOAD TEST AND CALCULATION OF THE BASE STATION

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