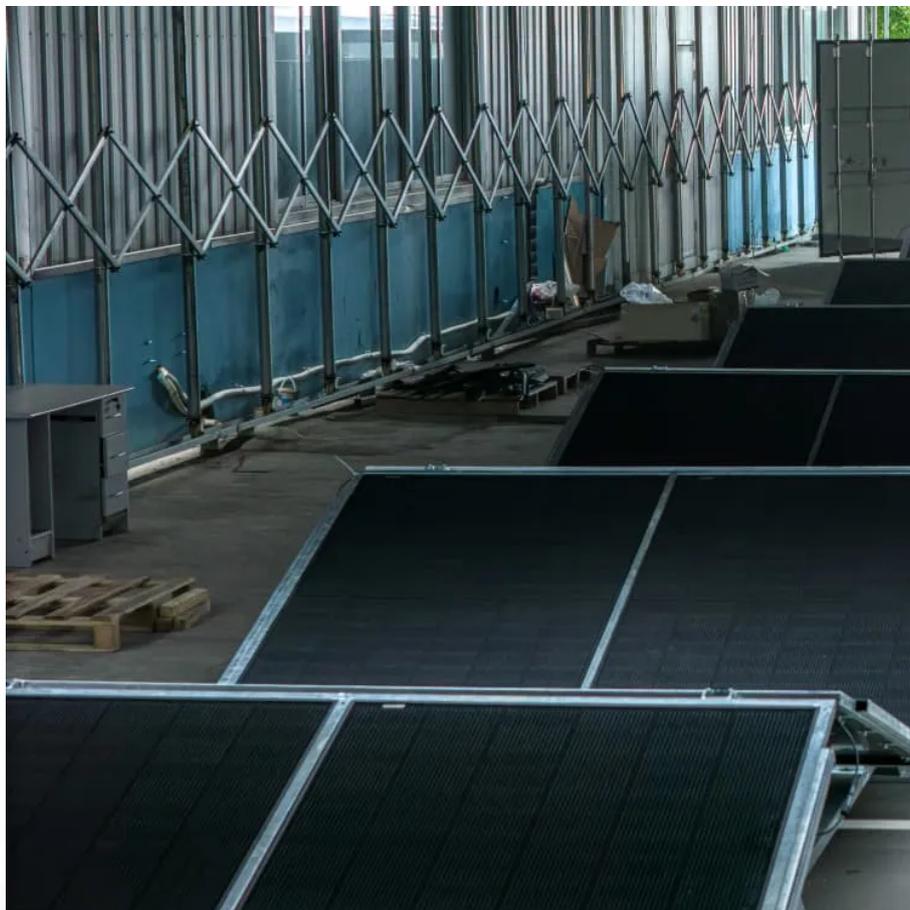


Base station wind power supply electricity entry





Overview

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?

.

What percentage of electricity is generated by wind?

Wind power provided 0.4%. In 2010, coal provided 45%, natural gas 24%, nuclear 20%, oil 0.9%, renewables 10% (of which 60% was hydro), and wind 2.3%. Electricity generation increased from 2004 to 2010 by almost 4%.

How does demand affect wind power supply?

As demand slows, the supply must be decreased. Because wind turbines respond to the wind rather than the grid dispatchers, they must be treated like variable demand rather than reliable supply. The grid has to adjust supply in response to the fluctuations of wind power as well as those of demand.

Is a wind turbine variable or intermittent?

Variability implies a fluctuation around a certain baseline, such as the variation of electricity demand through the day. Intermittency implies something that frequently starts and stops. Wind power is both intermittent and variable. How much carbon dioxide does a wind turbine save?



Base station wind power supply electricity entry



[Base station wind power supply function](#)

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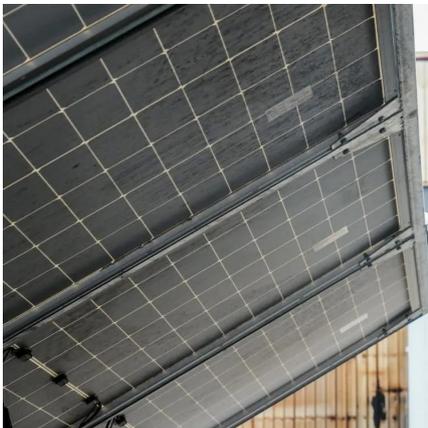
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