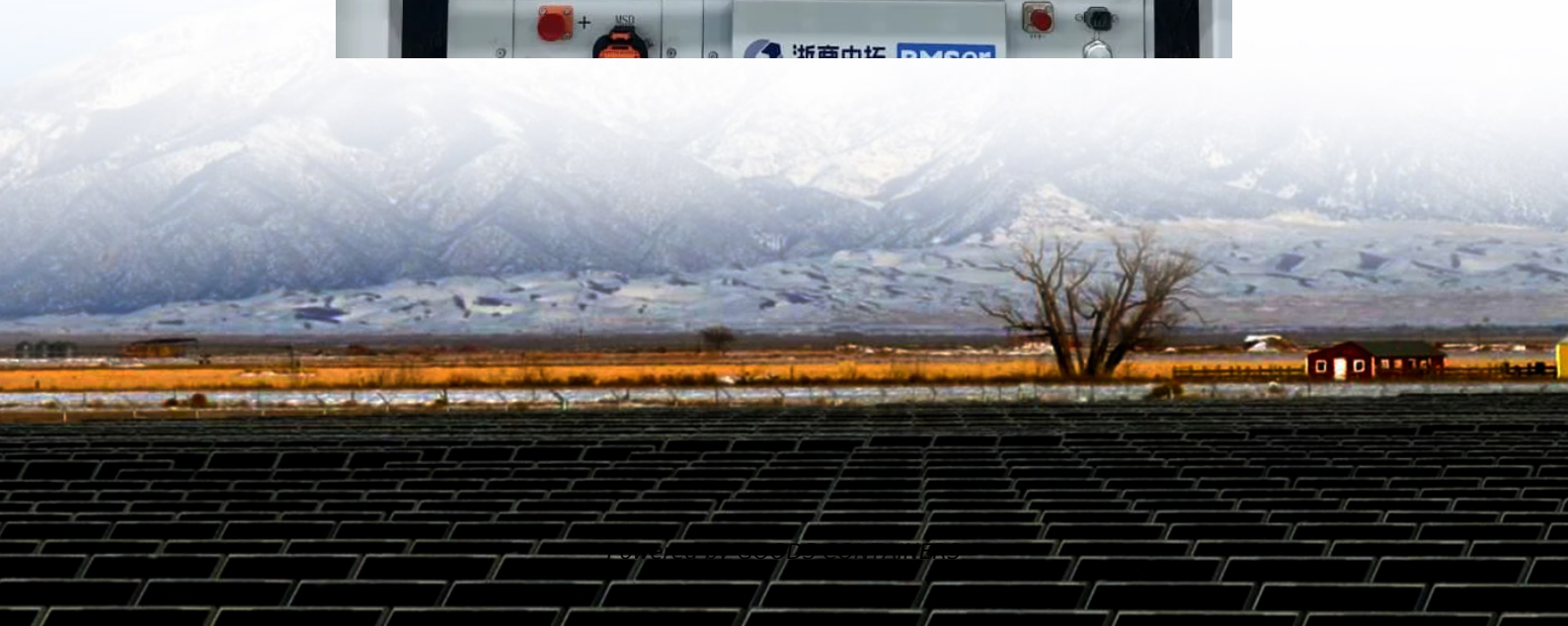


Balcony wind power generation system





Overview

How do balconies affect urban wind patterns?

The arrangement of buildings, the presence of balconies, and balcony design significantly modify urban wind patterns. The depth of balconies from 2.5 to 10 mm will increase average wind power density by 25% at wind directions of 0° , and the difference is minimal at wind direction of 45° .

Are lower balcony densities suitable for wind turbines on rooftops?

Lower balcony densities are more suitable for installing wind turbines on rooftops. Furthermore, the results provide design guidelines for compact building arrays with balconies for urban planning and wind energy exploitation.

How deep should a balcony be to install a wind turbine?

The depth of balconies from 2.5 to 10 mm will increase average wind power density by 25% at wind directions of 0° , and the difference is minimal at wind direction of 45° . Lower balcony densities are more suitable for installing wind turbines on rooftops.

What is wind-energy-harnessing dense building array in urban areas?

The rapid global development of urbanization has led to increased building densities. Wind-energy-harnessing dense building array in urban areas is a contemporary initiative to increase the share of affordable and clean energy in global energy production.



Balcony wind power generation system



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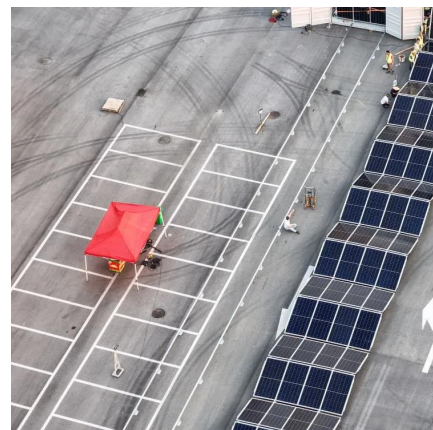


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