



BUHLE POWER

**The wind and solar power
complementarity of solar
container communication
stations across the country is
7MWh**





Overview

Why is spatiotemporal complementarity of wind and solar power important?

Understanding the spatiotemporal complementarity of wind and solar power generation and their combined capability to meet the demand of electricity is a crucial step towards increasing their share in power systems without neglecting neither the security of supply nor the overall cost efficiency of the power system operation.

Can wind-solar complementarity improve energy supply and demand?

Wind-solar complementarity strongly depends on temporal scale. The anticipated greater penetration of the variable renewable energies wind and solar in the future energy mix could be facilitated by exploiting their complementarity, thereby improving the balance between energy supply and demand.

Can wind and solar PV complementarity be used as a planning strategy?

Notwithstanding these limitations, the result of this work clearly highlights the added value of using wind and solar PV complementarity and electricity criteria as a planning strategy for new VRE capacity deployment aiming to reduce the power flexibility needs, namely, the use of expensive energy storage systems.

Do primary wind and solar resources complement the demand for electricity?

Couto and Estanqueiro have proposed a method to explore the complementarity of primary wind and solar resources and the demand for electricity in planning the expansion of electrical power systems.



The wind and solar power complementarity of solar container comm

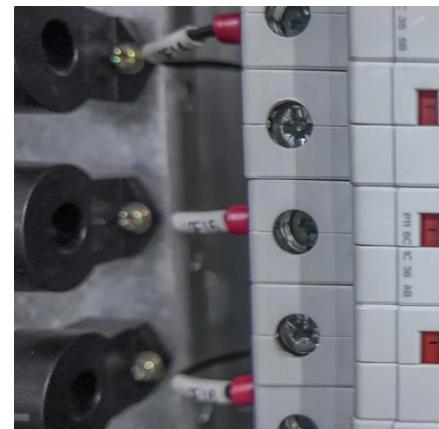


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