

# **Which is more complementary between wind and solar power in coastal solar container communication stations**





## Overview

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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.

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.

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.

Is there a complementarity between wind and solar power production?

In , a considerable complementarity between the wind and solar power production in Portugal was also identified, i.e., when the solar PV output is maximum, wind generation tends to exhibit the minimum values (daytime), and vice versa.



## Which is more complementary between wind and solar power in coastal areas



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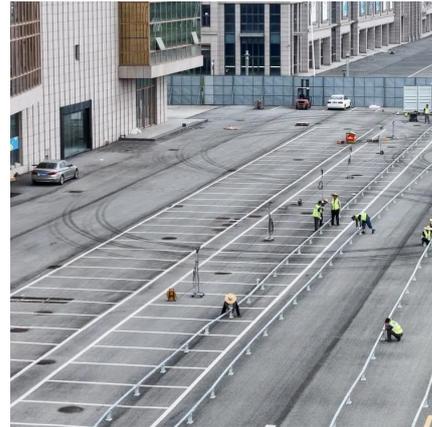
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