Wind and solar complementarity for solar container communication stations in Portugal

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Title: Wind and solar complementarity for solar container communication stations in Portugal
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Can wind power plants be hybridized with solar PV power in Portugal?
The hybridization of existing wind power plants using solar PV power in Portugal is examined. An assessment of the wind and solar PV generation local complementarity using correlation and energy-based metrics. Benchmarking of overplanting configurations with wind and solar PV power are compared.

Should Portugal explore wind and solar PV complementarity?
Recently (Couto and Estanqueiro, 2020), proposed an approach for Portugal to explore the wind and solar PV complementarity taking into consideration the nation's electricity consumption. 1.1. Renewable hybrid power plants

Are wind and solar PV generation local complementarity important?
An assessment of the wind and solar PV generation local complementarity using correlation and energy-based metrics. Benchmarking of overplanting configurations with wind and solar PV power are compared. Important complementarity amid wind and solar PV especially in central and northern regions of the country was found.

Do wind and solar PV complementarity exist in the Iberian Peninsula?
The wind and solar PV complementarity have also been verifiedon the Iberian Peninsula using different datasets and approaches [23,24].

This investigation assesses the potential of existing Portuguese wind parks for hybridization with solar power photovoltaic generation.

In this context, the aim of the present work is to identify the complementarity between solar, wind and wave resources based on 10 years of ERA5 data (from 2012 to 2021).

Using Portugal as a case study, this work examines two offshore regions of the Plan for the Allocation of Offshore Renewable Energy in Portugal using standard approaches to assess the ...

This work proposes a methodology to exploit the complementarity of the wind and solar primary resources and electricity demand in planning the expansion of electric power ...

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