

# The wind and solar complementary ownership of Andorra City's solar container communication stations





## Overview

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Should wind and solar power be allocated across countries?

Optimally allocating the installed capacities of wind and solar across countries can bring substantial benefits in terms of higher capacity factors and lower variability.

Does cross-country coordination of wind and solar capacity increase capacity factor?

We find that optimal cross-country coordination of wind and solar capacities across Europe's integrated electricity system increases capacity factor by 22% while reducing hourly variability by 26%. We show limited benefits to solar integration due to consistent output profiles across Europe.

Should solar power be integrated across European countries?

The integration of solar power across European countries does not provide significant benefits because generation patterns within the continent are homogeneous and the Southern countries have both higher and more consistent solar resource.

Why should we optimize wind-solar installed capacities?

Optimizing wind-solar installed capacities increases mean capacity factor and reduces its variability. Combining wind and solar improves the output-variability tradeoff at all timescales. The EU reference scenarios appear to overlook these substantial benefits. Optimizing Europe's renewables increases output by 22% with 26% lower variability.



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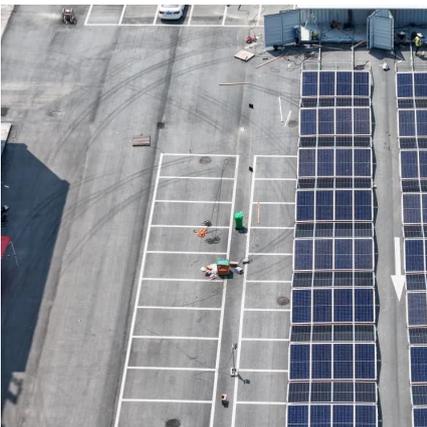


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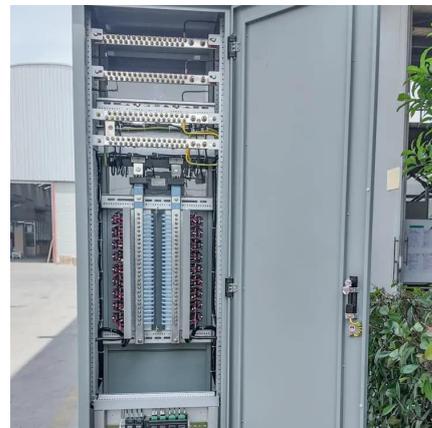
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