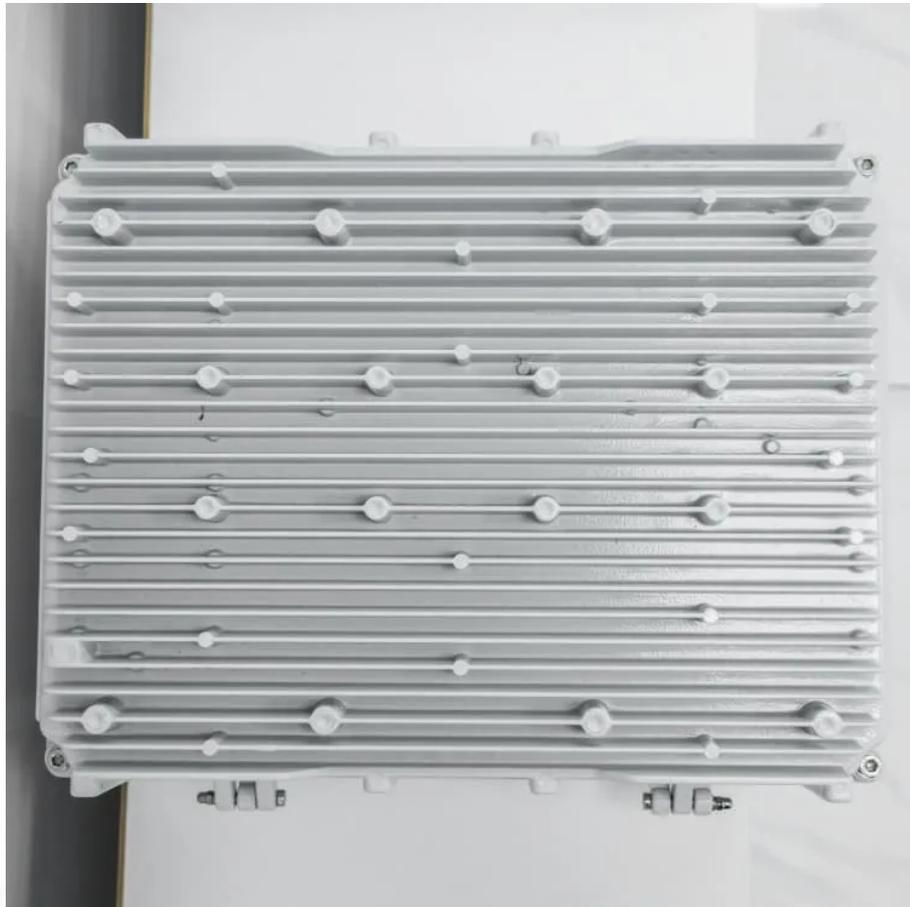


European wind solar and storage integration





Overview

Can solar & wind storage be combined at a single site?

The potential of combining solar, wind and storage at one site is clear. Regulation remains the main barrier, but some European countries are now showing how it's done. Combining solar and wind parks with large battery storage systems at a single site, otherwise known as co-location, offers several advantages.

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.

How does solar and wind contribute to the vesg?

The complementary effects of solar, wind and hydropower enhance the VESG even further, which in principle makes it possible to keep the energy storage demand well below the storage capacity of existing hydropower reservoirs (section "Virtual energy storage gain for PV solar, wind and hydropower over Europe").

Why is wind integration important?

Greater wind integration yields larger benefits due to the diversity of regional weather patterns. This framework shows the importance of considering renewable projects not in isolation, but as interconnected parts of a pan-continental system.



European wind solar and storage integration



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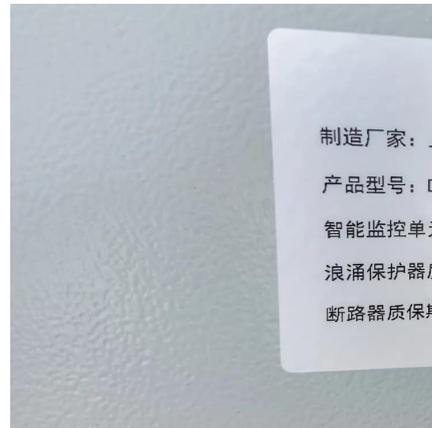
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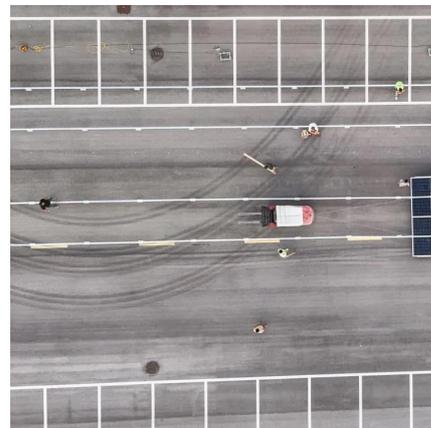
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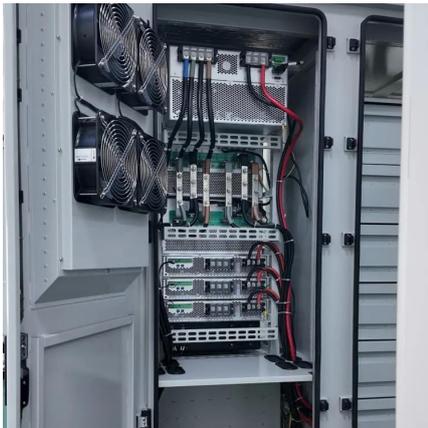
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