

Large-scale energy storage project planning land





Overview

Could large-scale storage be a viable alternative to direct wind and solar?

In 2050 Great Britain's demand for electricity could be met by wind and solar energy supported by large-scale storage. The cost of complementing direct wind and solar supply with storage compares very favourably with the cost of low-carbon alternatives. Further, storage has the potential to provide greater energy security.

Why do large-scale power plants need Consolidated Land considerations?

In a word, the layout of large-scale power plants necessitates consolidated land considerations to economize on costs, enhance construction and operational efficiency, optimize economies of scale, and, importantly, prevent further fragmentation of land use.

Does Great Britain need large-scale electricity storage?

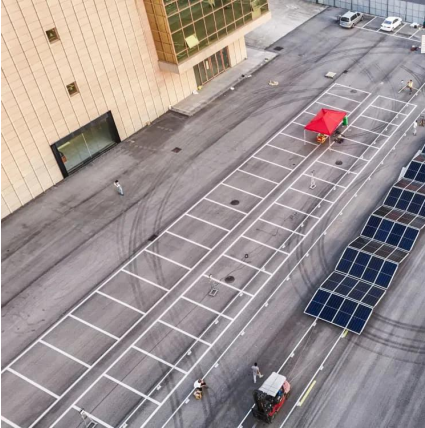
It draws on studies from around the world but is focussed on the need for large-scale electrical energy storage in Great Britain (GB) and how, and at what cost, storage needs might best be met. In 2050 Great Britain's demand for electricity could be met by wind and solar energy supported by large-scale storage.

How do large-scale photovoltaic power plants address land fragmentation?

Aside from the costs of infrastructure and grid integration, the location of large-scale photovoltaic power plants must address the contemporary issue of land fragmentation. Given their significant scale, these power plants require expansive and contiguous land for development.



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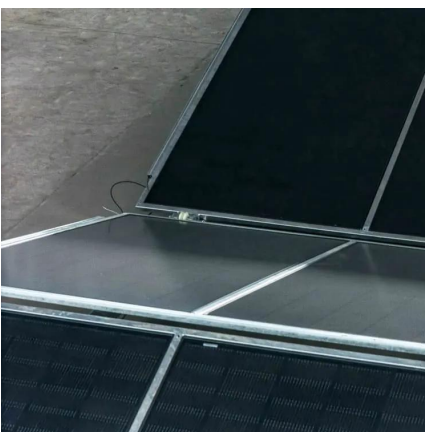
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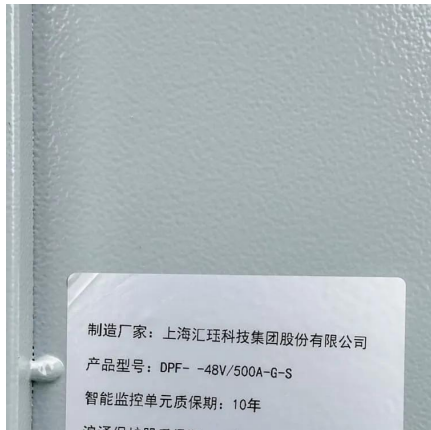
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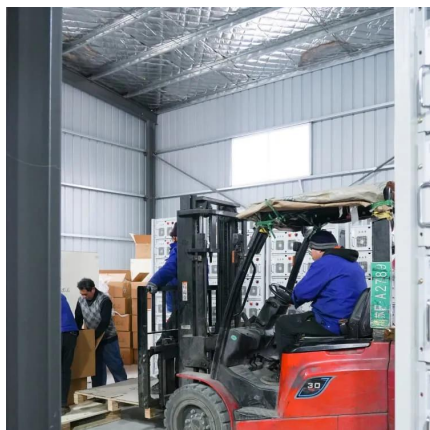
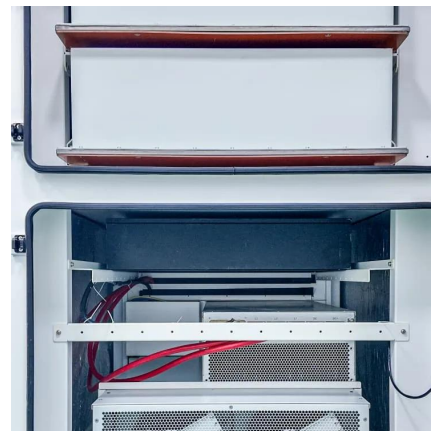


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