

SolarTech Power Solutions

UK hybrid energy storage peaking power station



Overview

The Redditch peaking plant is part of Centrica's plans to deliver around 1GW of flexible energy assets, that includes the redevelopment of several legacy-owned power stations, including the transformation of the former Brigg Power Station in Lincolnshire into a battery storage asset and the first plant in the UK to be part fuelled by hydrogen. Which power stations are being redeveloped in the UK?

That includes the redevelopment of several legacy power stations, including the Brigg Energy Park in to a power generation and battery storage asset, and the first power station in the UK to be part-fuelled by hydrogen.

What is a peaking power plant?

The plant is designed to support times of high or peak demand for electricity. Peaking plants only operate when production from renewables can't meet demand, supporting the energy transition by maintaining a stable electricity supply.

What is the role of peaking plants in the UK's energy mix?

Wind power, in particular, became the largest single source of electricity in the UK in 2024, surpassing gas-fired plants with a 30% share of the energy mix. This shift highlights the increasing reliance on renewable sources and the crucial role of peaking plants in ensuring grid stability during periods of low generation.

Can a battery energy storage facility replace a peaking power generator?

Fossil-fuel fired plants have traditionally been used to manage these peaks and troughs, but battery energy storage facilities can replace a portion of these so-called peaking power generators over time.

Why are peaking power plants important in the UK?

In the UK, peaking power plants have become increasingly important as the

nation aims for net-zero carbon emissions by 2050. With the ongoing decommissioning of coal-fired power stations and the limitations of existing nuclear infrastructure, the grid requires reliable alternatives.

Why should we invest in peaking power plants?

Investments in peaking plants ensure that the UK's energy transition remains both sustainable and secure. Peaking power plants play a vital role in complementing renewable energy sources. They act as a safety net, providing power when renewable generation falters. This capability is essential for integrating renewables into the grid at scale.

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