



Energy storage factory Guernsey

Wind energy is commercially viable, and research has shown a promising local resource for an offshore development. Consideration would be needed around impacts to the environment, fisheries and shipping for example. The fluctuation in wind would require battery storage or a second subsea cable to export energy.

We need energy storage in the form of home and business battery systems, utility-scale storage, and we need to produce hydrogen, which is a great store for renewable energy when in energy is in abundance.

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Using energy consumption data we can make recommendations for installing equipment to generate clean energy, such as Solar PVs and heat pumps. Once installed, we can collect additional data to inform decisions about energy conservation, generation and storage. We can use the data to create energy ratings.

A key technology in managing this gap between generation and demand are Battery Energy Storage Sites (BESS). These can charge from the grid when there's an abundance of renewable electricity during peak generation periods and then discharge back onto the grid when there's a shortfall in supply.

GUERNSEY could be using large grid-scale batteries to store energy as early as 2030 - despite the island's draft electricity strategy stating they would not be "cost optimal".

Renewables and energy storage Thermal transition Environment and society Environment and society overview Accessibility, inclusion and equity Biodiversity and nature Climate change Environmental assessment and management ...

The latest price increase implemented by Guernsey Electricity shows the increasing benefit of investment in self-generation and energy storage technology, according to the green energy experts at The Little Green Energy Company.

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