

Ireland solar distributed energy storage project





Overview

The project aims to demonstrate the potential of distributed demand-side energy storage to support the transition of the Irish electricity grid to a 100% renewable future, whilst at same time delivering value to consumers, the grid operator, utility suppliers, renewable generators and aggregators. Could a new battery storage project be a ground breaking development in Ireland?

In a ground breaking development for renewable energy in Ireland, FuturEnergy Ireland has proposed a pioneering iron-air battery storage project in Donegal County. If approved, this 1 GWh facility would be the first of its kind in Europe, capable of storing energy for up to 100 hours.

How much battery storage do we need in Ireland & Northern Ireland?

In 2021 energy experts Baringa estimated that to hit the 80 per cent renewable electricity targets in Ireland and Northern Ireland by 2030 we would need at least 1,700 MW of battery storage on the island of Ireland. Every battery storage project connected makes our electricity grid more secure and helps to integrate wind and solar power.

Does Ireland have a scalable and decentralised energy solution?

Ireland doesn't have a scalable, decentralised energy solution for community-driven renewable energy management. The COPOWER project is filling this gap by introducing a virtual power plant model, which allows multiple distributed energy resources (DERs) to be connected and managed efficiently.

What is the energy storage sector like in Ireland?

Decommissioning and recycling at end of life In Ireland, the energy storage sector comprises mainly of an operational pumped hydro generation facility and c.700MW of short duration batteries providing system services, this will need to grow to c.4.5 GW by the mid 2030s.



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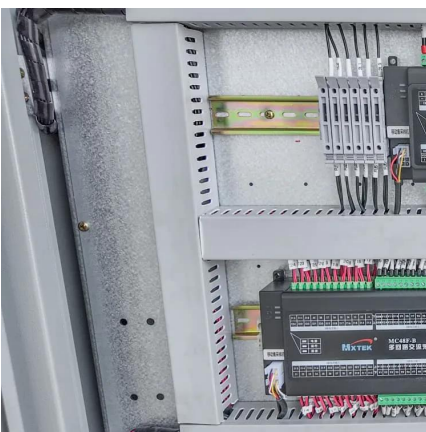
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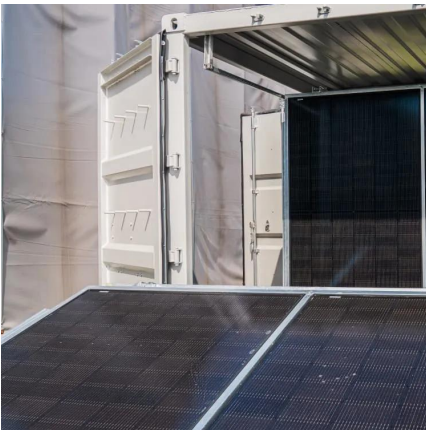
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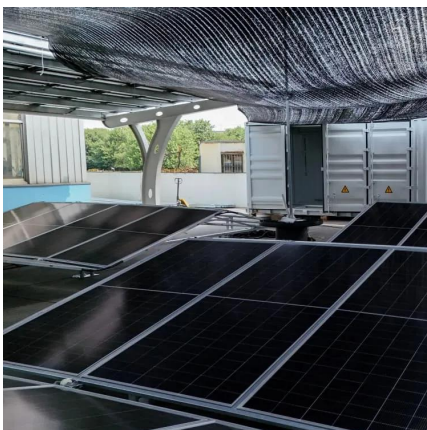


Charged Horizons

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