

Ireland s new energy storage





Overview

Does Ireland need more energy storage?

This study documents industry perspectives from Ireland, a country which requires a significant increase in the development of energy storage due to security of supply concerns, its isolation from Europe's central transmission network and its reliance on wind energy as a primary intermittent renewable energy resource.

What is Ireland's energy storage framework?

The framework recognises that the energy storage landscape is rapidly evolving. While Ireland currently relies primarily on battery storage and the Turlough Hill Power Station in County Wicklow, new technologies are emerging that could play a key role in the future.

Could energy storage transform Ireland's energy system?

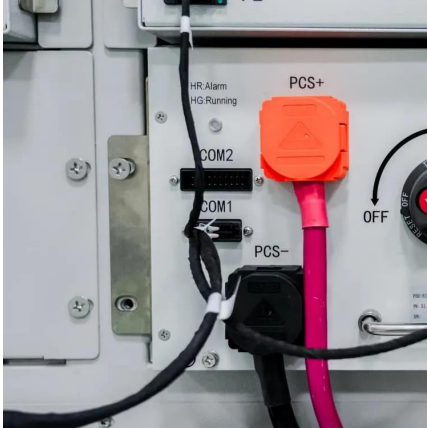
If this pipeline was built out, the report states that Ireland could capture all of that wasted energy, further reducing our reliance on fossil fuels, and driving down energy costs for consumers. "Energy storage solutions can transform our electricity system for the better," said Bobby Smith, head of Energy Storage Ireland.

When will long duration energy storage be available in Ireland?

The Irish Electricity Storage Policy Framework, published after this data was collected, indicates that an immediate route to market for 500 MW of long duration energy storage is currently being developed, with further studies planned to support long duration storage from 2030 to 2040 (Government Of Ireland 2024a).



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Publications

ESI Recommendations For Programme For Government
Alternative Network Charges For Energy Storage
Behind-The-Meter Storage - An Energy Solution For Ireland
ESI Position Paper - A Procurement Framework For Long-Duration Energy Storage
Energy Storage: Powering Our Clean Energy Future
ESI and IWEA 70By30 'Saving Power' Report
Information Paper on The Safety of Grid-Scale Battery Energy Storage Systems
Our Energy Storage Future
Store, Respond and Save - Cutting Two Million Tonnes of CO2
June 2022 This position paper sets out ESI's views on the need for Long-Duration Energy Storage in Ireland and how a new procurement framework that provides a form of long-term revenue certainty is needed to support its deployment.
See more on [energystorageireland](#)
ScienceDirect

Unlocking the potential: Insights from industry on barriers, ...

Dec 1, 2024 · The energy storage sector across Europe faces many financial, regulatory and policy barriers which has to date hindered development in many countries. This study ...

[Critical role of battery storage in Ireland's energy plans](#)

Jun 2, 2025 · Ireland is going to need up to seven times more energy storage than its current capacity, say industry experts.
John Daly reports At the recent Energy Storage Global ...





[Ireland's Battery Storage Pipeline Nears 10GW as Sector ...](#)

Jun 26, 2025 · Ireland's energy storage capacity could increase almost eightfold by 2035, driven by a growing pipeline of battery projects and calls for stronger policy support, according to a ...

New batteries based on rusting will help make Ireland's energy ...

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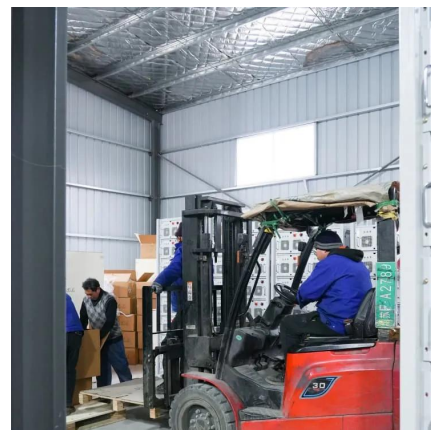


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[Electricity Storage Policy Framework](#)

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[Government outlines electricity storage future - Energy Ireland](#)

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