

PEES Power Systems

Energy storage research and development ireland



Voltage range:691.2-947.2V

>6000 cycles(100%DOD)

Rated battery capacity:
216KWH (customizable)

EMS communication:
4G/CAN/RS485



Overview

Ireland's renewable energy future hinges on a key challenge—effective wind and solar energy storage. Our 2025 survey results highlight the pipeline of storage projects in development in Ireland and Northern Ireland. April 2025 This report by Cornwall Insight examines the potential for. NexSys (Next Generation Energy Systems) is an ambitious multidisciplinary energy research programme (2022-26). It is hosted by the UCD Energy Institute in partnership with eight other leading research institutions: DCU, ESRI, Maynooth University, University of Galway, Queen's University Belfast. With heavy dependence on imported fossil fuels, dwindling domestic gas production, increasing geopolitical instability, we face growing energy anxiety. The emergence of storage and its rapid growth has demanded new public newable electricity sources (VRES) and a paucity of alternative sources of flexibilities, especially in the short term.

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Research paper

Using focus groups and a survey with the renewable energy and storage sector, we document perspectives on the critical barriers, innovative solutions and policy gaps identified by industry stakeholders

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Publications

It identifies key supply-side skills development needs such as research, training and development and quantifies the volumes of energy storage that will be needed by 2035 and 2050 in Ireland.



Critical role of battery storage in Ireland's energy plans

ESI is an industry representative body working to promote the development of energy storage in Ireland and Northern Ireland in achieving national decarbonisation goals.

Long Duration Energy Storage

If you are interested in learning more about long duration energy storage, or would like a discussion around how to get more involved in LDES in Ireland, please reach out to our team below.



ULRR Public policy and the emergence of battery energy storage ...

policy responses. This report shows that Ireland has been a 'leader' on the deployment of BESS in relative terms. This is likely a result of its need for flexibility in the context of high penetration of variable r.

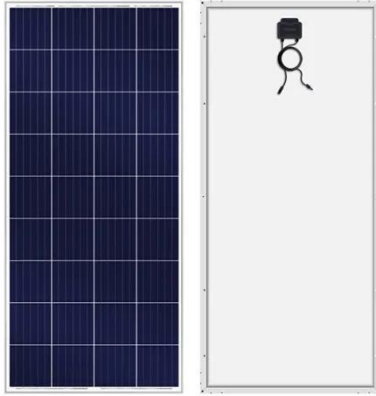
Battery Storage

We currently have more than 300MWs of battery storage capacity in operation in Ireland, making it one of the largest battery portfolios in Europe. We plan to develop a pipeline of large scale battery projects, as well as ...



Review of Deployment of Long Duration Energy Storage in the ...

...



This report seeks to assess the potential for Long Duration Energy Storage technologies (LDES) in Ireland, focusing on barriers and opportunities for the sector.

Energy , Irish Universities Association

Ireland's renewable energy future hinges on a key challenge--effective wind and solar energy storage. Chemist, Prof. Kevin Ryan at University of Limerick is tackling this head-on, advancing the safety, and cost efficiency ...



Ireland Powers Up with Largest Battery Energy Storage ...

Ireland takes a leap towards clean energy with its largest battery storage facility. Explore the benefits of this 150 MWh project.

Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://www.peregrine-energy.co.za>

