

■ What is Long Duration Energy Storage and Why Do We Need It

At different times throughout the year, renewable energy generation is limited due to reduced sunlight and low wind speeds. However, a stable electricity supply remains necessary regardless of weather conditions. Energy storage methods, including LDES, help by storing surplus energy produced during periods of high sunlight or strong wind and releasing it when required.

Conventional Battery Energy Storage Systems (BESS) usually store excess energy for up to four hours, while LDES can extend this period to between eight and twelve hours. This extended capacity enables improved grid management; for instance, wind energy produced at night can be stored and distributed during peak morning hours when demand is higher – just when we all wake up and need our morning cup of coffee!

Historically Ireland has depended on fossil fuel power plants – gas, coal and oil to provide on-demand electricity and for maintaining grid stability. As the country advances towards climate goals and reduced carbon emissions, renewable energy sources are taking centre stage, LDES becoming a critical component of this new green energy infrastructure, helping to balance supply and demand while supporting a cleaner, more resilient grid.

■ Benefits for you and your community

This project will bring with it a community sustainability fund in the region of an estimated €25,000 a year for 10 years which will be made available from the beginning of the construction period. Statkraft will support in creating a steering committee that ensures the community itself decides how to use the funding to deliver and support projects that have enduring economic, social and cultural benefits.

Examples of these benefits could include:

- Community energy efficiency schemes
- Educational and sustainable initiatives
- Funding for local heritage initiatives
- Biodiversity initiatives

■ Sustainability

The European Council has recently passed regulation on the battery supply chain, which covers the entire life-cycle of all batteries in Europe, to ensure that from the sourcing of the raw materials right through to the recycling of the batteries at their end-of-life, that everything is done in a fair, transparent and sustainable manner. Additionally, as part of Statkraft's commitment to responsible and sustainable supply chain management, we ensure that our battery suppliers also share and uphold our sustainability values.

As a proud Business Supporter of the All-Ireland Pollinator Plan (AIPP), we emphasise the importance of biodiversity on our projects. Using the AIPP framework we will support community-led biodiversity initiatives in the Derryroe area, and we would



Scan here to access Code for the EU Battery Regulation

If you have ideas around what type of sustainability projects you would like to see in your area, our dedicated Community Liaison Team and our in-house Sustainability Team would love to hear them.

■ Local Suppliers

Our aim is to have the least impact and provide the most benefit to the communities in which we operate. The construction phase is one way we can create economic benefits through inward investment. If you have a business and would like to get involved, please use this QR code which will bring you to our Local Suppliers Registration Form to sign up.



For more information, please visit the following websites

www.seai.ie Sustainable Energy Authority Ireland (SEAI)	www.epa.ie Environmental Protection Agency
www.un.org/climatechange UN Climate Change Website	www.energystorageireland.com Energy Storage Ireland
www.climatecouncil.ie Ireland's Climate Change Advisory Council	www.corkcoco.ie Cork County Council

Talk to our Community Liaison Officer

The Community Liaison Officer for this project is John Lowry who is also supported by a dedicated team who have years of experience in renewables and working with communities. While they are very knowledgeable about renewable energy projects, they also appreciate the fact that individuals and communities have different thoughts on what works in their individual areas. The team are available to provide information on this proposal or indeed the wider issues of climate action. We would encourage anyone who has an interest in this proposal to get in touch with us using the contact details below.

Dedicated website

There is a dedicated project website (www.derryroeenergystorage.ie) in place where all information and project updates will be available. You can also share your feedback on the project on the website. If you have any further questions, you can contact your dedicated Community Liaison Officer on the contact details provided below.



Next steps

A planning application for the Derryroe LDES proposal will be submitted to Cork County Council in the coming weeks. Once the planning has been submitted, all the relevant planning documentation will be available to view on the Council's website. A number of grid options are currently being evaluated, and a separate planning application will be presented at a later date.



You can subscribe to project updates by scanning the QR code:

Privacy Policy

Here at Statkraft we take your privacy seriously and we treat your information with respect. To facilitate environmental safety management systems and to ensure appropriate assessment and development; consultation and domiciliary data within the study area is collected. For more information about how Statkraft processes personal data, please consult our general privacy policy at <https://www.statkraft.ie/privacy-statement/> – or you can also direct any specific questions you have to privacy@statkraft.com.

Contact us

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We are proud members of:



■ Rethinking Ireland's Energy Future

At Statkraft, we believe that a better, cleaner, and more sustainable world is possible to achieve and that by working together, we can avoid the worst impacts of climate change. Since 2018, Statkraft has been developing renewable energy projects in Ireland and is committed to delivering affordable renewable energy onto the Irish grid system while working with communities to explore how these projects might work best in their local areas.

Over the last century, Ireland's energy journey has shifted dramatically—from early electrification powered by coal, oil, and gas, to decades of peat-fuelled generation. Today, as we phase out expensive fossil fuels, we're embracing full electrification powered by clean, renewable sources. Projects like Derryroe are helping to drive this sustainable transition.

Cork has long been a leader in adopting sustainable technologies, setting an example not just in Ireland but across Europe. As a Cork-based company, we're proud to contribute to this legacy and to help shape a sustainable, prosperous future for both Cork and Ireland.

Our Community Liaison Team, are available to meet at a time that would suit you to discuss the project. If you would like to contact us to arrange a visit, please see the contact details at the end of this booklet.

■ Who We Are

As Europe's largest producer of renewable energy, Statkraft has been enabling clean energy for over a century through an array of local projects in Ireland & across the continent. Today, we continue to lead the transition to a carbon-free future and since establishing operations in Ireland in 2018, Statkraft has grown a team of over 140 people across our offices in Cork and Tullamore.

Our Commitment to Community and Environment

At Statkraft Ireland, we place significant emphasis on meaningful community engagement and environmental stewardship throughout our project development process. For every initiative, including the Derryroe Long Duration Energy Storage (LDES) project, our team actively seeks to listen to and work alongside local communities to ensure that our activities are aligned with their values and priorities.

We recognise that the landscapes and traditions that define communities are invaluable, and we are dedicated to developing projects that not only contribute substantially to Ireland's clean energy ambitions but also respect and enhance these local characteristics. By fostering open communication, incorporating community feedback, and prioritising environmental care, we aim to deliver renewable energy solutions that benefit both people and the planet, now and into the future.

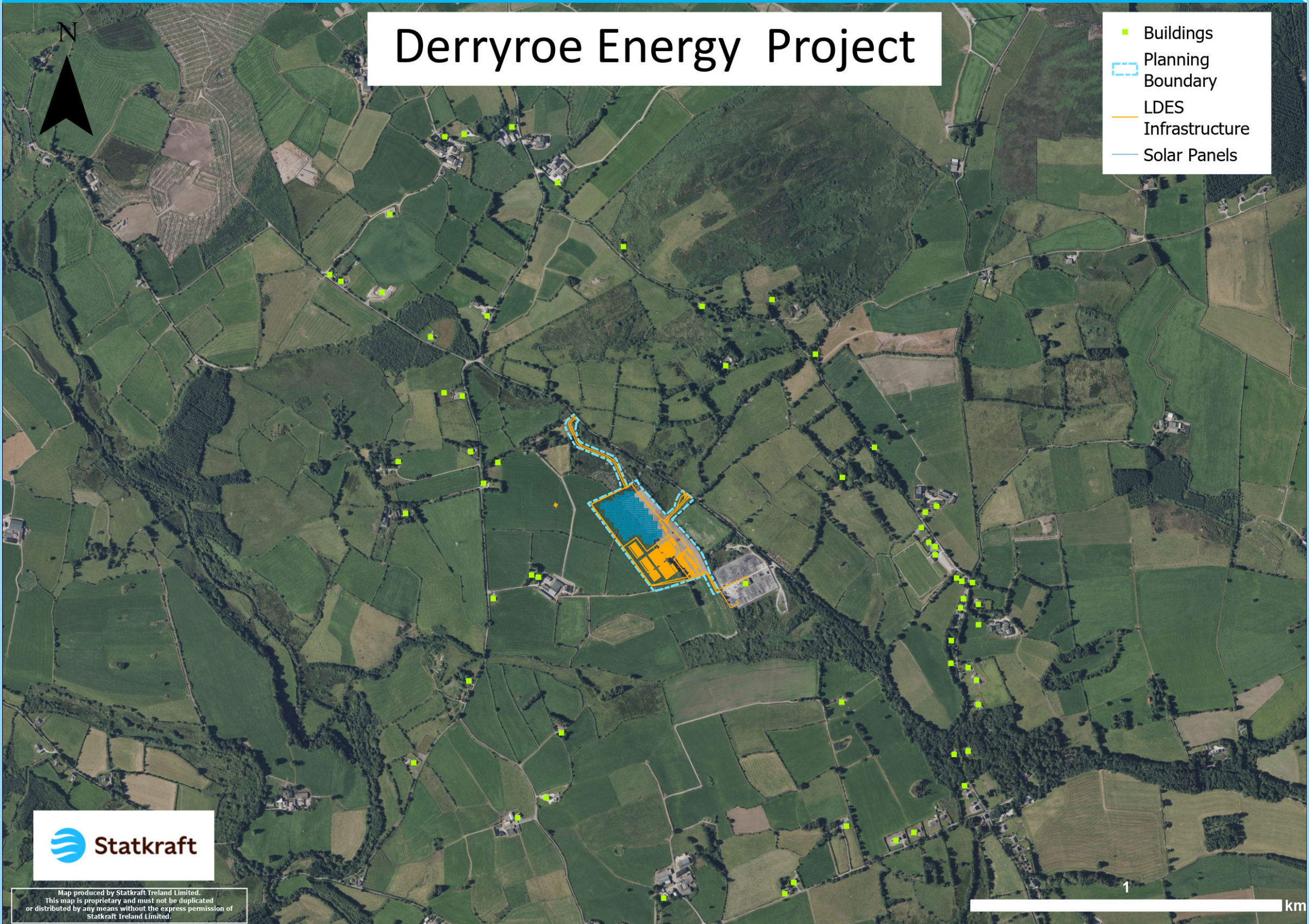
Celebrating Community Heritage

This region is known for its strong community bonds and holds an important place in Irish history and folklore. We recognise and value the deep sense of pride and collective spirit that exists here.

It is important to acknowledge that this community is already at the forefront of the renewable journey, having embraced both wind and solar projects. This pioneering spirit demonstrates a commitment to sustainability and progress, setting an inspiring example for others.

Our aim is to harness this community's energy and enthusiasm to ensure that the Derryroe proposal builds upon and supports the positive work already being carried out by local volunteers. We look forward to working together to further strengthen the unique character and achievements of this area.

■ Site Map



■ This Proposal

To complement the innovative LDES proposal at Clashavoon 220KV Substation, Statkraft also proposes the integration of a 2 MWp solar photovoltaic (PV) installation on approximately 2 hectares of land. This addition will enhance the sustainability profile and efficiency of the project by providing clean, renewable energy directly to the grid and supporting the overall decarbonisation strategy.

By integrating solar generation with LDES, the project will optimise both energy and land use, enabling the storage of surplus solar power for dispatch during periods of reduced generation or increased demand.

A community sustainability fund of €25,000 a year for 10 years will be available from the beginning of the construction period. This Statkraft project is designed to support local projects and initiatives, ensuring that the community directly benefits from the presence of the LDES and solar PV infrastructure.

Together, the Derryroe LDES and solar PV initiatives represent a forward-thinking approach to energy resilience, combining next generation storage technology with proven renewable generation to deliver long-term benefits for both the grid and the wider community.

■ Project at a Glance

- Next generation lithium-ion batteries
- Up to 150MW storage - subject to final design
- Approx. 6.4-hectare site, with 2MW solar array
- Environmental screening report as part of application
- Subsequent planning application for the grid connection
- Community Sustainability Fund of €25,000 for 10 years from commencement of construction
- Proposal will be submitted to Cork County Council in the coming weeks

How the grid can operate with 100% renewables

