

## EDF Power Solutions Ireland



### Client:

EDF power solutions Ireland, part of EDF power solutions (previously EDF Renewables UK and Ireland) are one of Ireland's leading renewable energy companies, specialising in wind power, solar and battery storage technology. They develop, build, operate and maintain renewable technologies throughout their lifetime.



### Industry:

Renewable Energy

### Product:

Aerial Photography

*“Bluesky was automatically our “go to” service provider to deliver this piece of work. Having worked with Bluesky for 6 years now, we have confidence in their ability to turn around good quality work in the shortest possible amount of time.”*

Teresa Tuttle, GIS Manager,  
EDF power solutions Ireland

### Summary:

EDF power solutions Ireland commissioned Bluesky to capture a 25cm resolution aerial survey of a 300-acre development site to meet pre-construction requirements to document the land's original condition before building a new solar farm. This high-quality aerial photography assists the planning and the 40-year land lease obligations, enabling EDF power solutions to proceed with construction. Alongside the aerial photography, Bluesky Digital Terrain Model (DTM) and contour datasets also supported wider engineering work, informing terrain modelling, solar panel orientation, wind farm assessments, and civil design, helping EDF power solutions select suitable sites, optimise layouts, and streamline renewable energy development.

## Challenge:

Before any new solar project can enter the construction phase, EDF power solutions is required to capture pre-construction imagery of the site as part of the land lease conditions, a critical step in the discharge of conditions process. In this case, EDF power solutions was preparing for construction of a new 300-acre solar farm and accurate aerial data was essential to demonstrate the current condition of the land, prior to development. As planning permission for the site spans the 40 years of the lease, EDF power solutions required evidence of how the land looked at the outset so that it could be reinstated if the project is later decommissioned at the end of the lease.

## Solution:

To meet the conditions, EDF power solutions commissioned Bluesky to carry out a 25 cm resolution aerial survey of the 300-acre site. Bluesky captured high quality, consistent aerial photography and delivered the processed aerial photography on schedule, satisfying all requirements and ensuring EDF power solutions could progress the project on time. Bluesky's DTMs and contour information were also applied to understand the topography of the site and guide engineering design, assess terrain suitability, and support informed decision making.

## Results:

EDF power solutions was able to move forward with the solar farm project, confident that all discharge of land agreement conditions had been satisfied. The data now serves as a crucial reference point should the land need to be restored in 40 years, ensuring EDF power solutions and the landowner can make informed decisions at the end of the lease. Beyond

aerial photography, the geospatial insight gained from Bluesky's DTMs and contour information enables EDF power solutions to select viable sites, optimise layouts, and rule out unsuitable locations early, streamlining the development process across their renewable energy portfolio.

Specification		
Resolution	12.5cm Imagery	25cm Imagery
Coverage	England & extensive areas across Scotland & Wales	England, Wales, Scotland and the Republic of Ireland
Accuracy XY	± 30cm rmse	± 60cm rmse
Formats	Include: JPG, TIFF, ECW, SID, KMZ	Include: JPG, TIFF, ECW, SID, KMZ
Bands	RGB / RGBI	RGB / RGBI
Standard Projection	British National Grid	British National Grid / Irish Transverse Mercator (ITM95)
Tile Size	1km x 1km (8,000 x 8,000 pixels)	1km x 1km (4,000 x 4,000 pixels) / 2km x 2km (8,000 x 8,000 pixels)
Metadata	Gemini 2.3	Gemini 2.3 / OGC compliant XML

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