



Walterstown 110kV Substation - Landscape and Visual Impact Assessment

Viewpoint Ref: VP4 L2220 at Jarretstown

Visualisation Type 4 - This 90°cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/19 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM):	701042	Horizontal Field of View: 90° (cylindrical projection)	Date and Time:	24/03/1900 15/42/00	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738879	Principal Distance: 522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	299 °	Paper size: 841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	0.7 km	Correct printed image size: 820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	65.93 m	Enlargement Factor: 96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS





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Easting (ITM):	701042	Horizontal Field of View: 90° (cylindrical projection)	Date and Time:	2025:10:01 15:42	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738879	Principal Distance: 522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	299 °	Paper size: 841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
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Viewpoint Ref: VP5 L2220 near Cullaghreeva

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Easting (ITM):	701614	Horizontal Field of View:	90° (cylindrical projection)	Date and Time:	24/03/1900 11/21/00	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738817	Principal Distance:	522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	289 °	Paper size:	841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	1.3 km	Correct printed image size:	820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	68.22 m	Enlargement Factor:	96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS





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Viewpoint Ref: VP5 L2220 near Cullaghreeva

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Easting (ITM):	701614	Horizontal Field of View:	90° (cylindrical projection)	Date and Time:	2025:09:17 11:21	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738817	Principal Distance:	522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	289 °	Paper size:	841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	1.3 km	Correct printed image size:	820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	68.22 m	Enlargement Factor:	96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS





Walterstown 110kV Substation - Landscape and Visual Impact Assessment

Viewpoint Ref: VP6 L2218 at Moor of Meath

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Easting (ITM):	700163	Horizontal Field of View:	90° (cylindrical projection)	Date and Time:	24/03/1900 11/37/00	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738648	Principal Distance:	522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	9 °	Paper size:	841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	0.5 km	Correct printed image size:	820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	65.27 m	Enlargement Factor:	96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS





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Easting (ITM):	700163	Horizontal Field of View: 90° (cylindrical projection)	Date and Time:	2025:09:17 11:37	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738648	Principal Distance: 522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	9 °	Paper size: 841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	0.5 km	Correct printed image size: 820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	65.27 m	Enlargement Factor: 96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS



90° Baseline View

Please Note: The proposed development is not visible from this viewpoint



Extent of 53.5° planar panorama (for reference)

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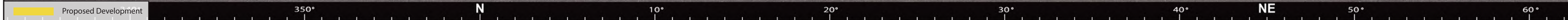
Viewpoint Ref: VP7 L1015 at Confey

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Easting (ITM):	699793	Horizontal Field of View:	90° (cylindrical projection)	Date and Time:	24/03/1900 11/45/00	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	737761	Principal Distance:	522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	18 °	Paper size:	841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	1.5 km	Correct printed image size:	820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	66.87 m	Enlargement Factor:	96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS



indicating physical position and scale of the proposed development irrespective of screening



Viewpoint Ref: VP7 L1015 at Confey

Easting (ITM):	699793
Northing (ITM):	737761
Direction of View:	18 °
Distance to Site:	1.5 km
Elevation:	66.87 m

Date and Time: 2025:09:17 11:45
Camera: Canon 5D Mark II Digital SLR
Lens: Canon Fixed 50mm Full Frame Sensor
Panoramic Head: Manfrotto Pano Head/Leveller
Camera Height: 1.7m (AGL)

Modelling Software:	3DS Max 2023
Rendering Software:	Mental Ray/Corona
GNSS Unit:	Trimble Catalyst (GNSS)
Topographical Data:	LIDAR/OSI Terrain Data
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Viewpoint Ref: VP8 L2218 at Walterstown

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Easting (ITM):	700084	Horizontal Field of View:	90° (cylindrical projection)	Date and Time:	24/03/2020 15:00:00	Photography Software:	Adobe Lightroom	Modelling Software:	3DS Max 2023
Northing (ITM):	738926	Principal Distance:	522 mm	Camera:	Canon 5D Mark II Digital SLR	Panorama Stitching Software:	PTGui Pro	Rendering Software:	Mental Ray/Corona
Direction of View:	26 °	Paper size:	841 x 297 mm	Lens:	Canon Fixed 50mm Full Frame Sensor	Post-Production Software:	Adobe Photoshop	GNSS Unit:	Trimble Catalyst (GNSS)
Distance to Site:	0.3 km	Correct printed image size:	820 x 251 mm	Panoramic Head:	Manfrotto Pano Head/Leveller	Formatting Software:	Adobe Illustrator/InDesign	Topographical Data:	LiDAR/OSI Terrain Data
Elevation:	67.02 m	Enlargement Factor:	96%	Camera Height:	1.7m (AGL)			GPS Ref:	Georeferenced/Surveyed DWGS





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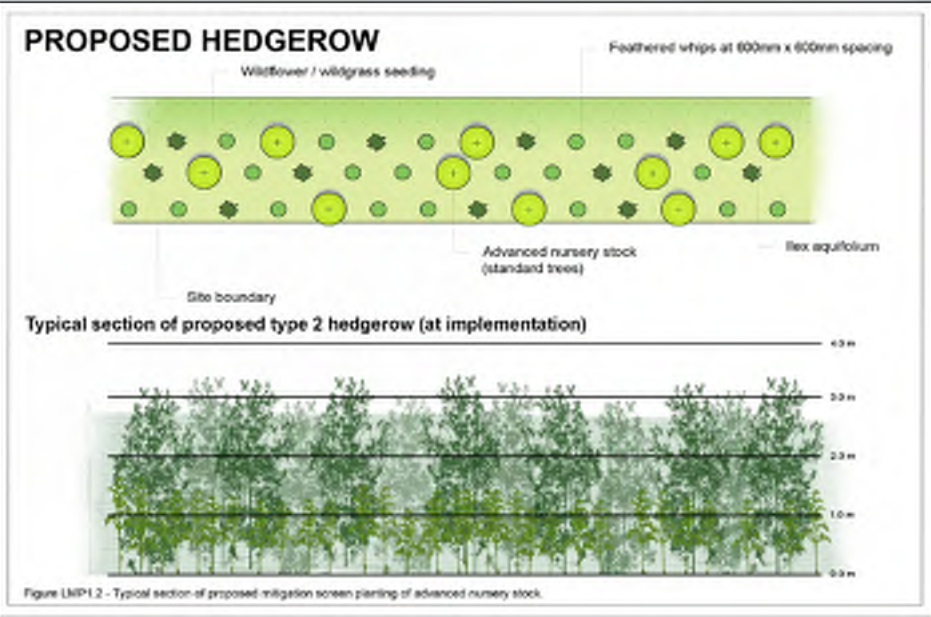
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Walterstown 110 kV Substation

PECR Appendix 12.2 - Landscape and
Ecological Mitigation Plan

December 2025



Legend:

- Proposed thicket
- Field margins/
grass seeding
- Existing hedgerows
- Existing trees

Notes:

It is imperative to use native Irish species in so far as possible as they are adapted to Irish conditions and therefore more likely to thrive compared to imported stock. Selected species should also represent woodland and hedgerows in the surrounding environs although non-native species are not to be used, unless otherwise agreed with the Planning Authority.

All plants supplied shall be exactly true to name as shown in the plant schedules. Varieties with variegated and/or coloured leaves will not be accepted, and any plant found to be of this type upon leaving-out shall be replaced by the contractor. Bundles of plants shall be marked in conformity with BS3936: Part 1: 1965 and BS3936: part 4: 1966. The nursery supplier shall replace any plants which, on leaving out, are found not to conform to the labels.

Proposed Landscape Figures:
Proposed native thicket : 620m length, 2515.5 sqm.
Species-rich grassland : 13237 sqm.

NATIVE WOODLAND/THICKET MIX SPECIES:2515.5sqm

Botanical name	Common name	Size	%
High Canopy (Dominants);			
Quercus patraea	Sessile Oak	Standard Tree, 200-300cm, bare root.	<10%
Pinus sylvestris	Scots Pine	Feathered Trees, 200-300cm, root ball.	
Low Canopy (Sub-dominants);			
Alnus glutinosa	Alder	Feathered Trees, 200-300cm, bare root.	20-25%
Betula pubescens	Downy Birch	Feathered Trees, 200-300cm, bare root.	
Prunus avium	Wild Cherry	90-120cm, bare root	
Understory and fringe (higher shrubs);			
Prunus Padus	Crab Apple	90-120cm	20-40%
Corylus avellana	Hazel	90-120cm	
Ilex aquifolium	Holly	90-120cm	
Crataegus monogyna	Hawthorn	90-120cm	
Understory and edge (lower shrubs);			
Prunus spinosa	Blackthorn	40-60cm	15-25%
Rosa-canina	Dog-rose	40-60cm	
Euonymus europaeus	Spindle	40-60cm	

Prepared by:
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00353 (01) 2303585
info@macroworks.ie

Prepared for:
ESB

27 Fitzwilliam Street
Lower, Dublin 2, D02
KT92, Ireland

Site location:

COUNTY MEATH

Drawing Title:
LANDSCAPE MITIGATION PLAN

Project:
WALTERSTOWN 110KV SUBSTATION

Drawn by:
MMCK

Checked by:
RB

Drawing Ref: **LD_WLTSTWN_LMP_1.0**

Scale:
1:750 @ A1

Date:
NOVEMBER 2025

PLANNING