



**Appendix 13-5**  
**Photowire Visualisation**  
**Booklet**

**Proposed Maughanaclea**  
**Renewable Energy Development**

## Photowire

Methodology – What are Photowires and how are they produced?

Photowires are early-stage photomontage visualisations (classified as ‘Type 3 Visualisations’ in the LI TGN 06/19, 2019).

Photowires are a combination of panoramic photographic images and a ‘wireline’. A wireline is the model of the proposed turbines accurately scaled and positioned within a digital elevation model (topographic model) as seen from a viewpoint. Photowires are produced by positioning and overlaying the wireline on top of the stitched photographic imagery captured from a viewpoint location.

Characteristics of Photowires - Early-stage and Draft Visualisations

The photowire imagery in this Appendix are draft, therefore:

- No rendering is applied to the imagery to make the turbines photorealistic – hence the orange colour;
- These photowires only include the cumulative turbines of the Proposed Maughanaclea Renewable Energy Development – all other cumulative wind farms have been excluded from these photowires;
- The wireline element of the Photowire only accounts for screening from topography in the elevation model;
- The wireline overlaid the photograph is shown on top of the panoramic photograph, in front of above ground elements of the landscape e.g. vegetation screening and the built environment. Therefore, the photowire shows where the proposed turbines are located relative to the viewpoint but are seen in front of above ground features which would visually screen them from view, in reality on the ground.

### Utility of Photowires for LVIA

The 5 No. photowires are presented within this Appendix are useful visual aids for the discussion of visual effects included in the Landscape and Visual Impact Assessment (LVIA) chapter. The location of photowire viewpoints in this Appendix are marked as orange icons in mapping figures throughout the LVIA chapter and Appendices, labelled as ‘PW’ (e.g., PW-A to PW-E).

### Presentation of Photowires in this Appendix

The photowires in this appendix are presented on A3 paper. In accordance with the Landscape Institute Technical Guidance Note 06/19 (LI, 2019), the photowires are presented within a horizontal field of view comprising 90 degrees and vertical field of view comprising 27 degrees and are scaled according to the guidance set out in table 5 of the LI TGN 06/19 (LI, 2019).

### Viewpoints Captured in 2024 and 2025

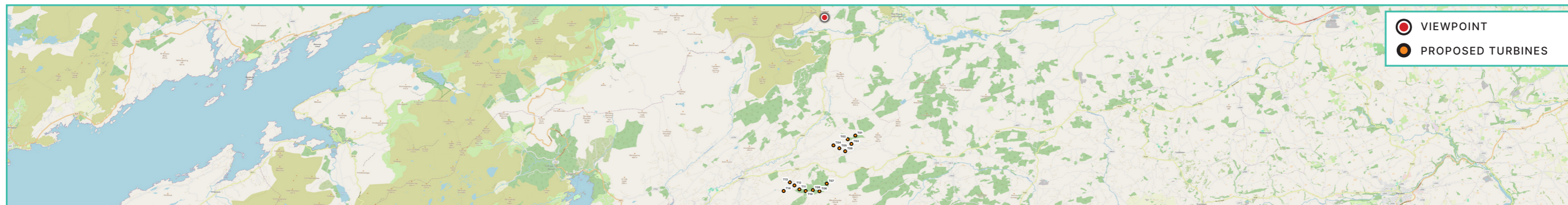
A total of 5 No. supplementary viewpoint images have been captured for this Landscape and Visual Impact Assessment chapter between November 2022 and April 2025. These are presented as photowires PW-A to PW-E in this Photowire Visualisation Booklet and are not assessed in the EIAR. These photowires represent views of the Proposed Development from areas to the south-west, west and north-west of the proposed wind farm site, from a variety of distances to aid to aid in visualisation of the Proposed Development from the wider landscape perspective. The photowires in this booklet are utilised to aid the discussions of Visual Effects in Section 13-7 Likely ‘Significant’ Landscape and Visual Effects of the LVIA chapter.



Photowire No.	Name	Viewpoint Description	X_ITM	Y_ITM
PW-A	Rossalougha	View from the L-7406 Local Road, along the C-SR27 Scenic Route within the townland of Rossalougha. Located approximately 8.2km north from the nearest proposed turbine (T01).	510122	566972
PW-B	Derryginagh East	View from the L-47133 Local Road, beside the C-SR30 Scenic Route within the townland of Derryginagh East. Located approximately 7.5km southwest from the nearest proposed turbine (T14).	503952	548655
PW-C	Kealkill	View from the R584 Regional Road within the townland of Kealkill. Located approximately 2.9km northwest from the nearest proposed turbine (T14).	504796	556554
PW-D	Gortnabinna	View from the L-3401 Local Road, along the C-SR25 Scenic Route within the townland of Gortnabinna. Located approximately 12.7km north from the nearest proposed turbine (T01).	515803	571177
PW-E	Snave	View from the N71 National Road, along the C-SR111 Scenic Route within the townland of Snave. Located approximately 7.8km west from the nearest proposed turbine (T14).	499583	554349



Photowire No.	Name	Viewpoint Description	X_ITM	Y_ITM
PW-A	Rossalougha	View from the L-7406 Local Road, along the C-SR27 Scenic Route within the townland of Rossalougha. Located approximately 8.2km north from the nearest proposed turbine (T01).	510122	566972



Existing View at 120°



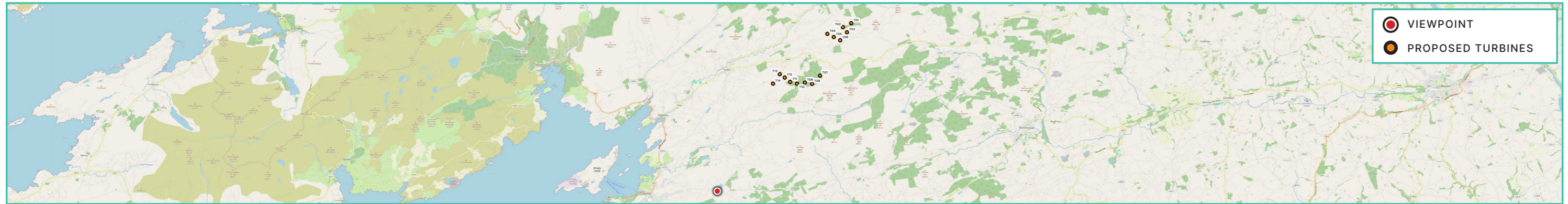
Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION



Photowire No.	Name	Viewpoint Description	X_ITM	Y_ITM
PW-B	Derryginagh East	View from the L-47133 Local Road, beside the C-SR30 Scenic Route within the townland of Derryginagh East. Located approximately 7.5km southwest from the nearest proposed turbine (T14).	503952	548655



Existing View at 120°

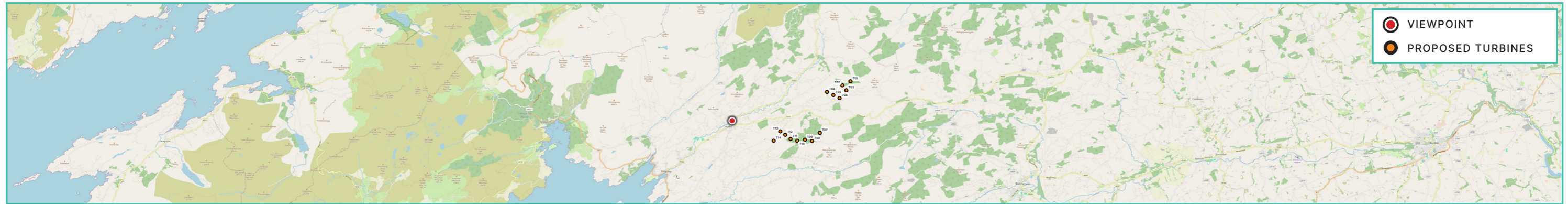


Photowire at 90°





Photowire No.	Name	Viewpoint Description	X_ITM	Y_ITM
PW-C	Kealkill	View from the R584 Regional Road within the townland of Kealkill. Located approximately 2.9km northwest from the nearest proposed turbine (T14).	504796	556554



Existing View at 120°



Photowire at 90°

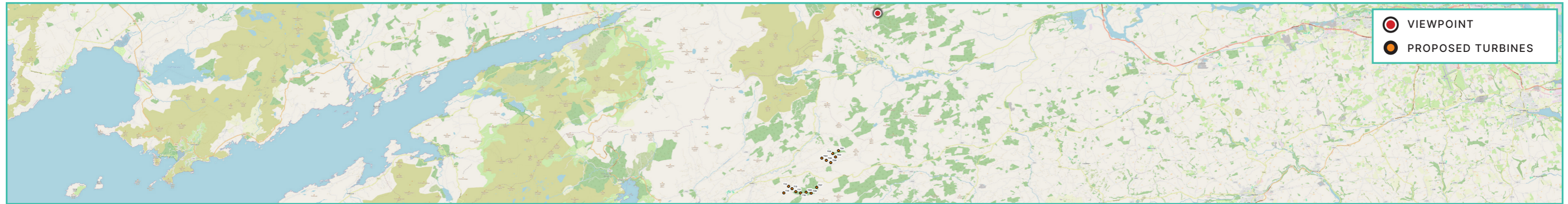


DRAFT PHOTOWIRE VISUALISATION



DRAFT PHOTOWIRE VISUALISATION

Photowire No.	Name	Viewpoint Description	X_ITM	Y_ITM
PW-D	Gortnabinna	View from the L-3401 Local Road, along the C-SR25 Scenic Route within the townland of Gortnabinna. Located approximately 12.7km north from the nearest proposed turbine (T01).	515803	571177



Existing View at 120°



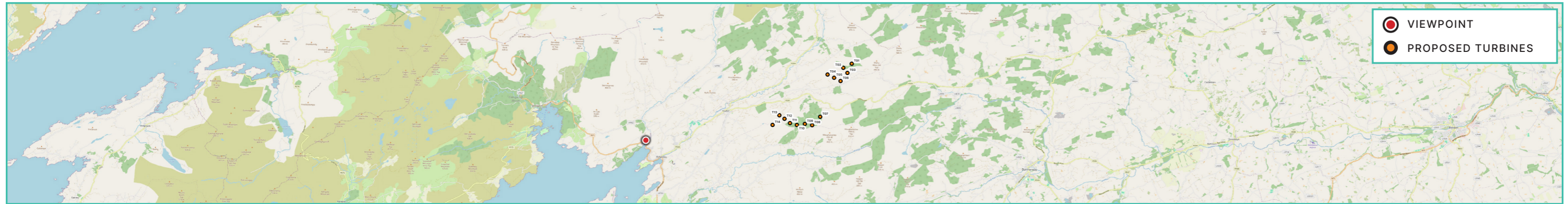
Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION



Photowire No.	Name	Viewpoint Description	X_ITM	Y_ITM
PW-E	Snave	View from the N71 National Road, along the C-SR111 Scenic Route within the townland of Snave. Located approximately 7.8km west from the nearest proposed turbine (T14).	499583	554349



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION



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