



## APPENDIX 14-5

**PHOTO WIRE VISUALISATIONS**



**Appendix 14-5**  
**Photowire Visualisation**  
**Booklet**

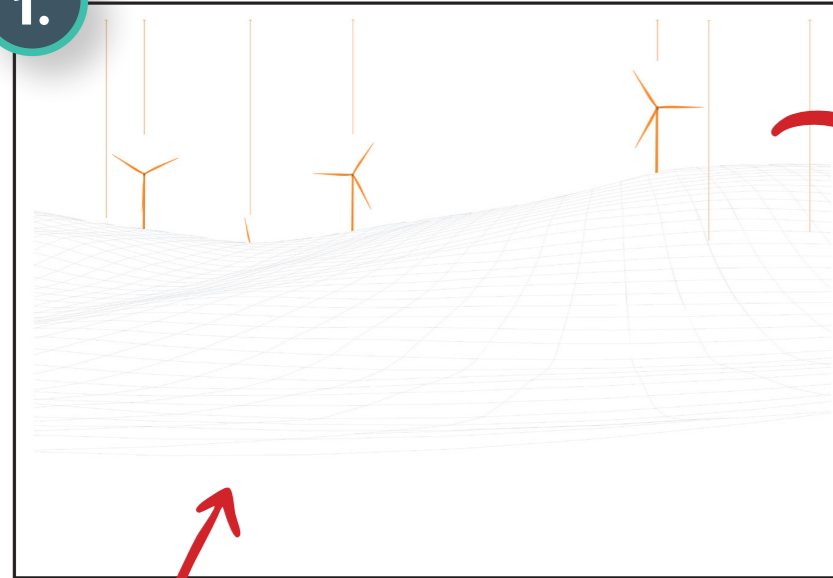
**Proposed Lemanaghan**  
**Wind Farm**



# PRODUCTION

Photowires are a combination of photographic images and a 'wireline'.

## 1. Wireline



A wireline is the model of the proposed turbines accurately scaled and positioned within a digital elevation (topography) as seen from a viewpoint.

## 2. Photographic image



## Photowire 3.



Photowires are produced by positioning and overlaying the wireline on top of the stitched photographic imagery captured from a viewpoint location.

## Photowires

### Methodology – What are Photowires and how are they produced?

All imagery captured from viewpoints for this LVIA (a total of 35 No. VPs) were progressed to a draft stage called - 'Photowires'. 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.

### Photowires – A tool for Photomontage Selection

19 No. viewpoints were selected for inclusion in the Volume 2 Photomontage Booklet. Imagery captured from the other 16 viewpoints visited on site for this LVIA are presented as Photowires in this Appendix. Photowires are used as tools both to select the best viewpoints for the Volume 2 Photomontage Booklet, and also to demonstrate as part of discussion in the LVIA chapter the locations where very limited visibility might occur. A photowire might not have been selected for the Volume 2 Photomontage Booklet as another nearby viewpoint was felt to be a better representation of views from receptors in a particular area or represented a greater number of sensitive receptors.

### 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;
- Photowires do not include cumulative – modelling and rendering of other permitted and proposed wind farms;
- 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 16 No. photowires are presented within this Appendix are useful visual aids for the discussion of visual effects included in Section 14.7 of Chapter 14: Likely Significant Landscape and Visual Effects. The location of photowire viewpoints in this Appendix are marked as orange icons in mapping figures throughout Chapter 14, labelled as 'PWVP' (e.g., PWVP-A).

### Photowires are not used for Cumulative Assessment

It should be emphasised that photowires are useful visual aids to inform the impact assessment; however, they do not include modelling of other existing, permitted, or proposed wind energy developments and are therefore not used for the assessment of cumulative effects. The Photomontage Booklet included as Volume 2 of this EIAR includes modelling and rendering of other existing, permitted and proposed wind energy developments.

### 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 27 degrees and vertical field of view comprising 18.2 degrees and are scaled according to the guidance set out in table 5 of the LI TGN 06/19, (LI, 2019)



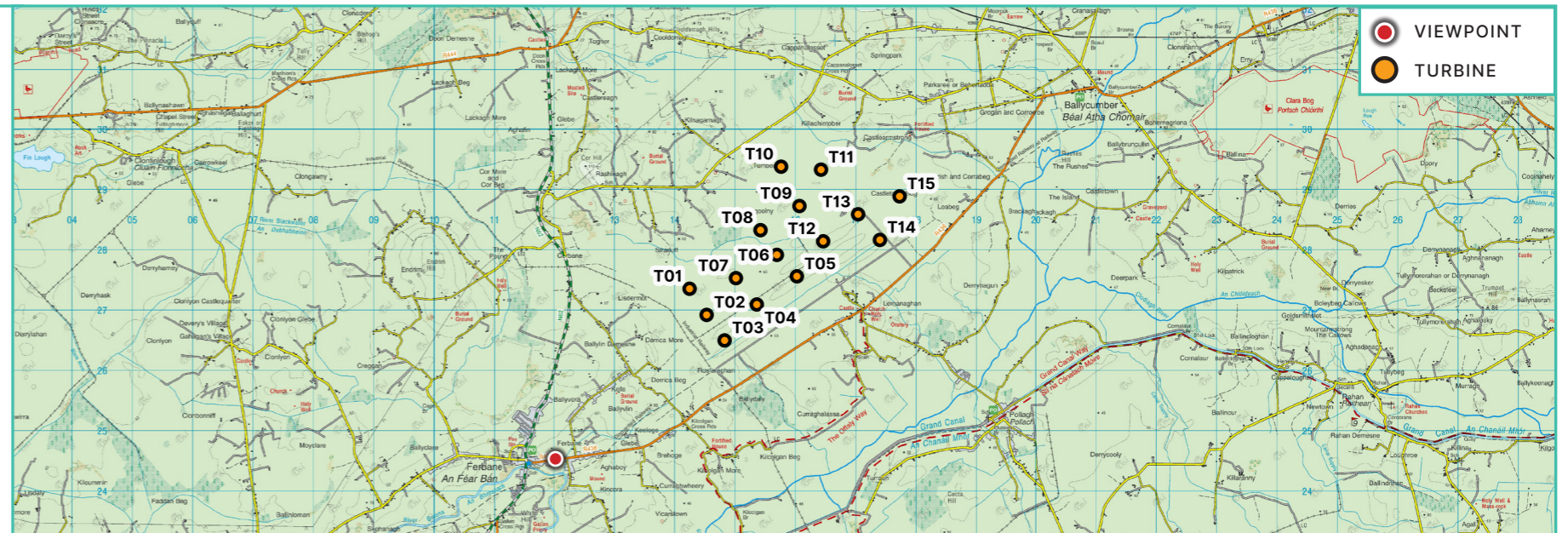
Photowire No.	Grid Reference (ITM)		Townland	Viewpoint Description
PWVP-A	611968	724536	Ferbane	View from the R436 Regional Road, within the settlement of Ferbane. Located approximately 3.4km west from the nearest proposed turbine (T03).
PWVP-B	600960	730667	Clonmacnoise	View from Clonmacnoise Monastic site located approximately 13.5km from the nearest proposed turbine.
PWVP-C	625865	733005	Clara	View from Kilbride Manor within the settlement of Clara, located approximately 9.2km from the nearest proposed turbine (T15).
PWVP-D	625882.34	725417.617	Rahan Monastic Site	View from Rahan Monastic Site and Church Ruins, located approximately 8.9km from the nearest proposed turbine (T14).
PWVP-E	600497	715886	Banagher Bridge	View from Banagher Bridge, located approximately 17.8km from the nearest proposed turbine (T03).
PWVP-F	596632	725476	Shannon Bridge	View from Shannon Bridge, located approximately 17.6km from the nearest proposed turbine (T01).
PWVP-G	611760	723682	Gallan Abbey	View from the Gallan Abbey / Cemetery, in the townland of Gallan. Located approximately 4km from the nearest proposed turbine (T03).
PWVP-H	620076	730584	Grogan / Corroe	View from the R436 Regional Road, within the townland of 'Grogan and Corroe' outside Ballycumber. Located approximately 2.9km from the nearest proposed turbine (T15).
PWVP-I	607955.467	745001.566	Ballaghkeeran Big	View from the N55 National Road in the townland of Ballaghkeeran Big at Lough Ree, located approximately 17.4km from the nearest proposed turbine (T10).
PWVP-J	618594.969	737353.849	Moategranoge	View from the L5311 Local Road in the townland of Moategranoge, located approximately 8.3km from the nearest proposed turbine (T11).
PWVP-K	619462	714640	Ballybrackan/Ridgemount	View from the N52 National Road exiting Kilcormac, within the townland of Ballybrackan/Ridgemount. Located approximately 12.8km south from the nearest proposed turbine (T03).
PWVP-L	613354.78	722755.512	Coole Castle	View from Coole Castle, located approximately 4km from the nearest proposed turbine (T03).
PWVP-M	618145	730518	Parkaree or Boherfadda	View from the L7001 Local Road in the townland of Parkaree/Boherfadda, located approximately 2.1km north-east from the nearest proposed turbine (T11).
PWVP-N	619374	729291	Cornafurrish and Corrabeg	View from the R436 Regional Road, in the townland of Cornafurrish and Corrabeg, located approximately 1.7km from the nearest proposed turbine (T15).
PWVP-O	612511	727010	Ballylin	View from the L70075 Local Road, in the townland of Ballylin, located approximately 1.7km from the nearest proposed turbine (T01).
PWVP-P	617128	726752	Offaly Way	View from the L70202 Local Road within the townland of Lemanaghan, along the Offaly Way recreational route, located approximately 1.4km from the nearest proposed turbine (T05).

# PWVP-A

E 611968 N 724536

## Ferbane

View from the R436 Regional Road, within the settlement of Ferbane. Located approximately 3.4km west from the nearest proposed turbine (T03).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

Photowire at 27°



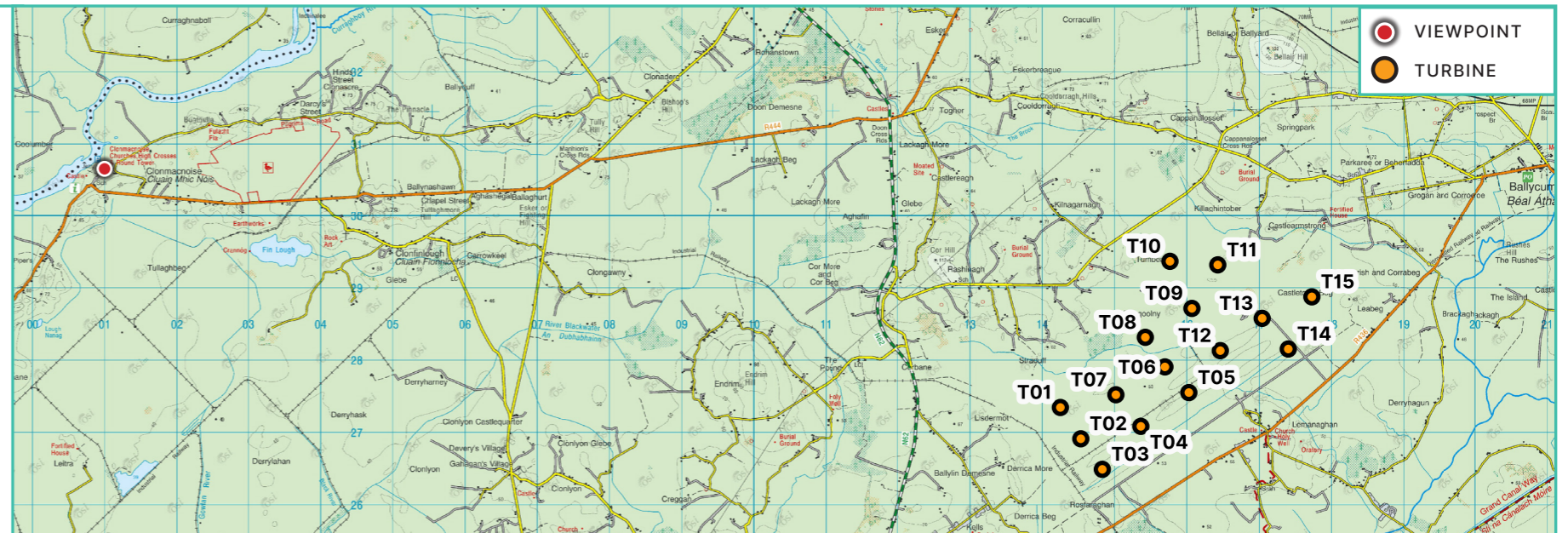
DRAFT PHOTOWIRE VISUALISATION

# PWVP-B

E 600960 N 730667

## Clonmacnoise

View from Clonmacnoise Monastic site located approximately 13.5km from the nearest proposed turbine.



Existing View at 120°



Photowire at 90°



Photowire at 27°



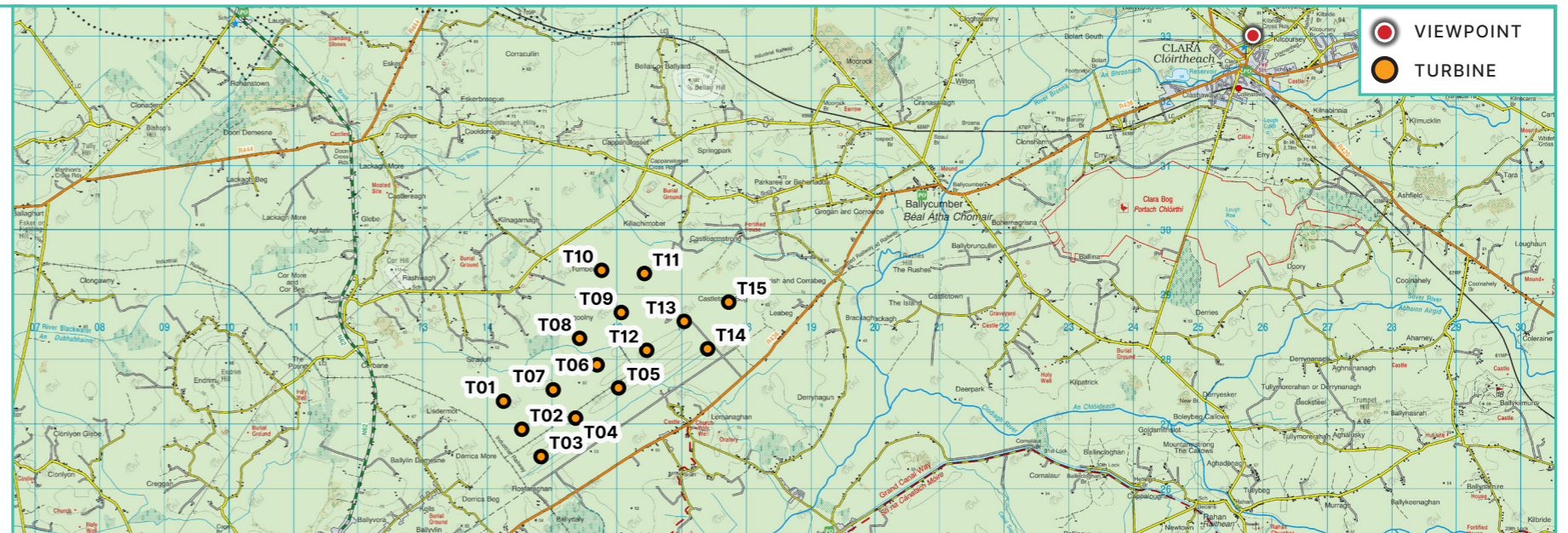
DRAFT PHOTOWIRE VISUALISATION

# PWVP-C

E 625865 N 733005

## Clara

View from Kilbride Manor within the settlement of Clara, located approximately 9.2km from the nearest proposed turbine (T15).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

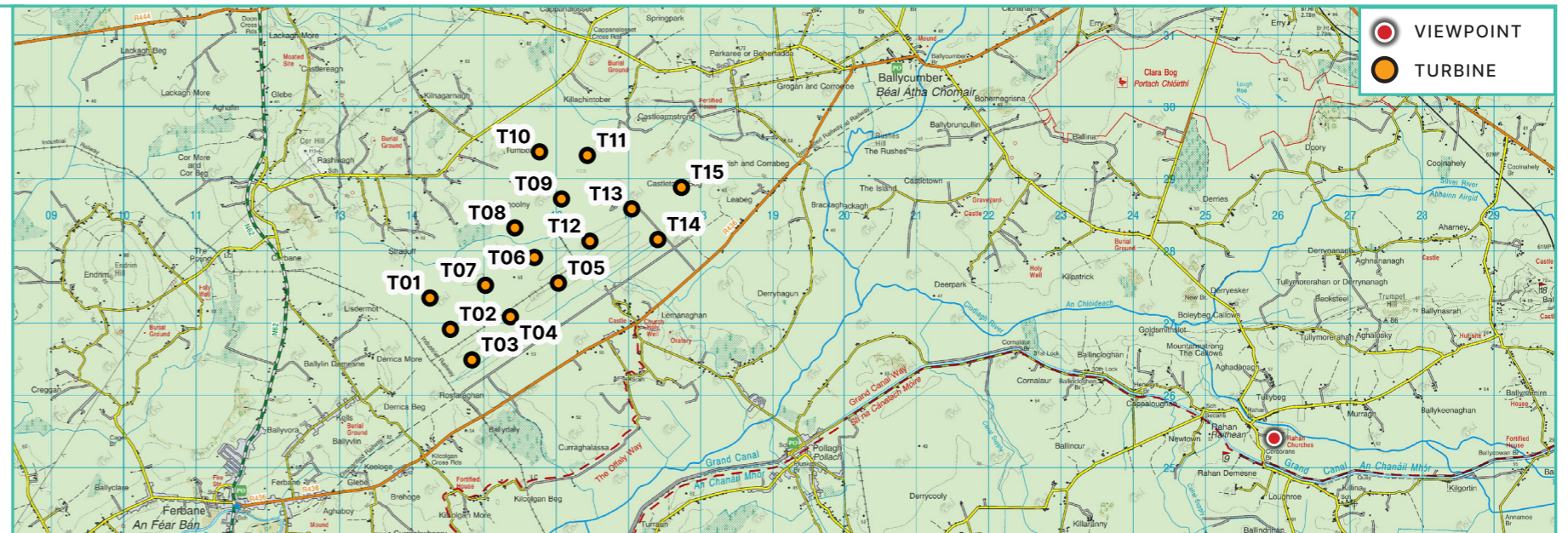


# PWVP-D

E 625882 N 725418

## Rahan Monastic Site

View from Rahan Monastic Site and Church Ruins, located approximately 8.9km from the nearest proposed turbine (T14).



Existing View at 120°



Photowire at 90°



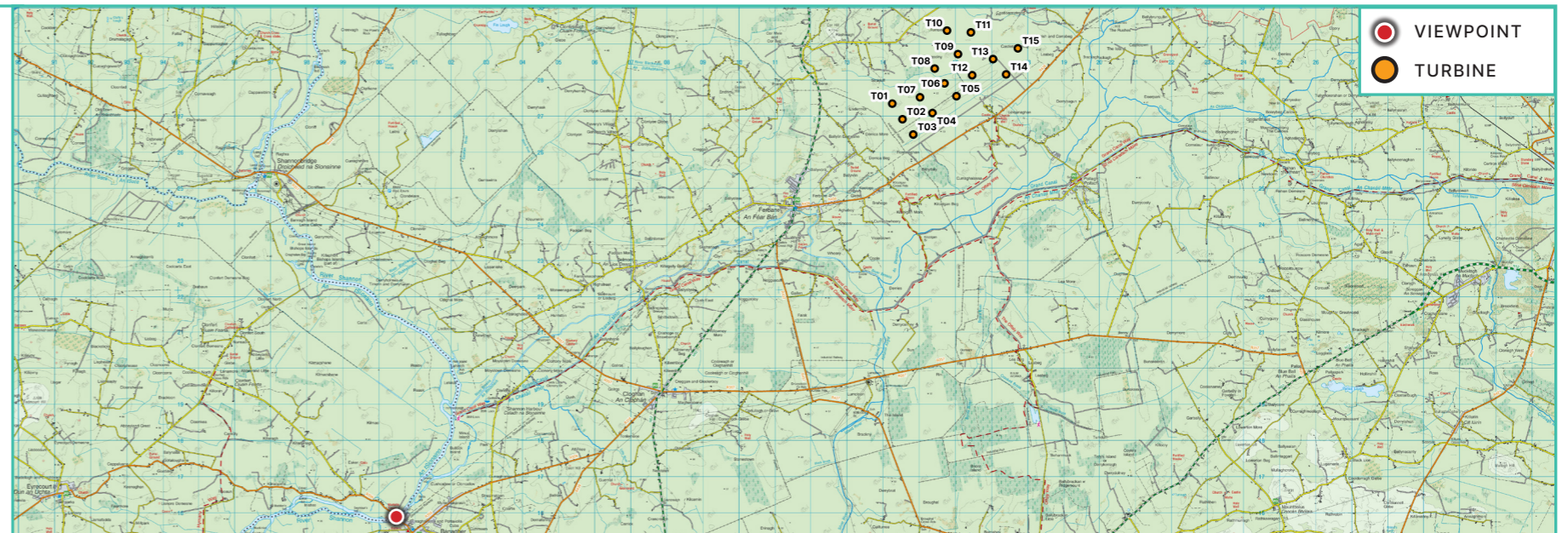


# PWVP-E

E 600497 N 715886

## Banagher Bridge

View from Banagher Bridge, located approximately 17.8km from the nearest proposed turbine (T03).



Existing View at 120°

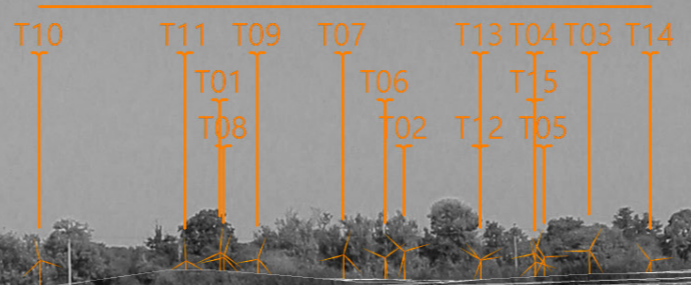


Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

Photowire at 27°



DRAFT PHOTOWIRE VISUALISATION

# PWVP-F

E 596632 N 725476

## Shannon Bridge

View from Shannon Bridge, located approximately 17.6km from the nearest proposed turbine (T01).



Existing View at 120°



Photowire at 90°



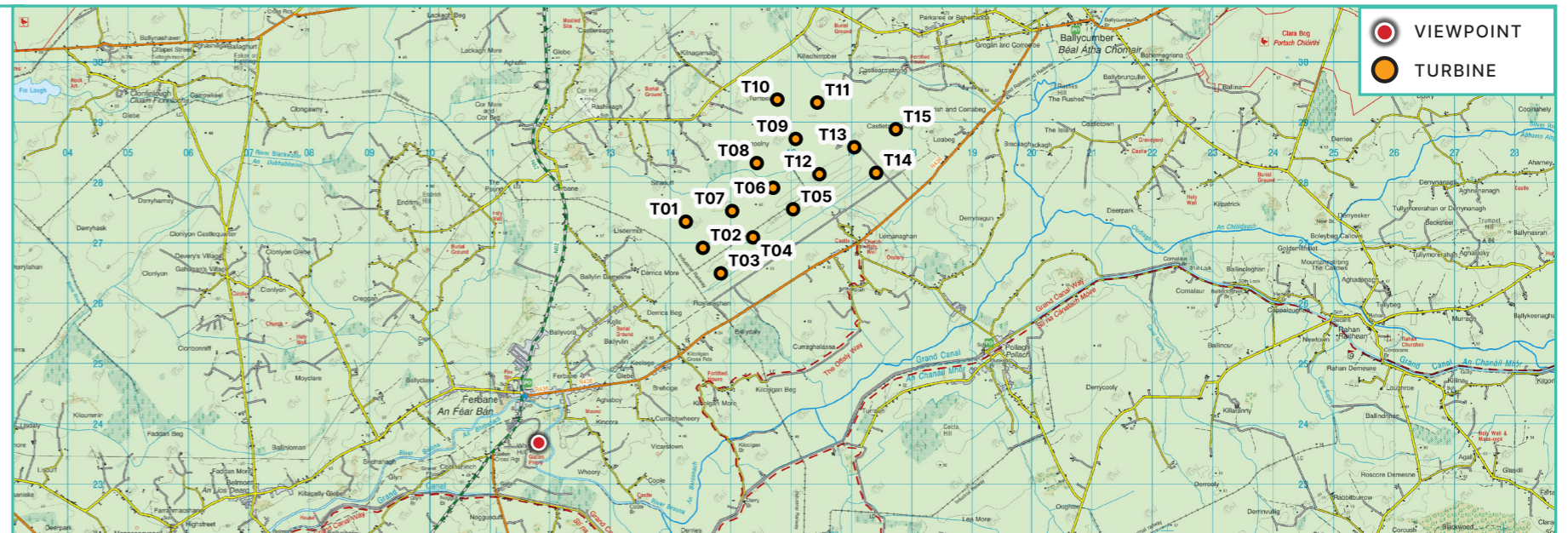


# PWVP-G

E 611760 N 723682

## Gallan Abbey

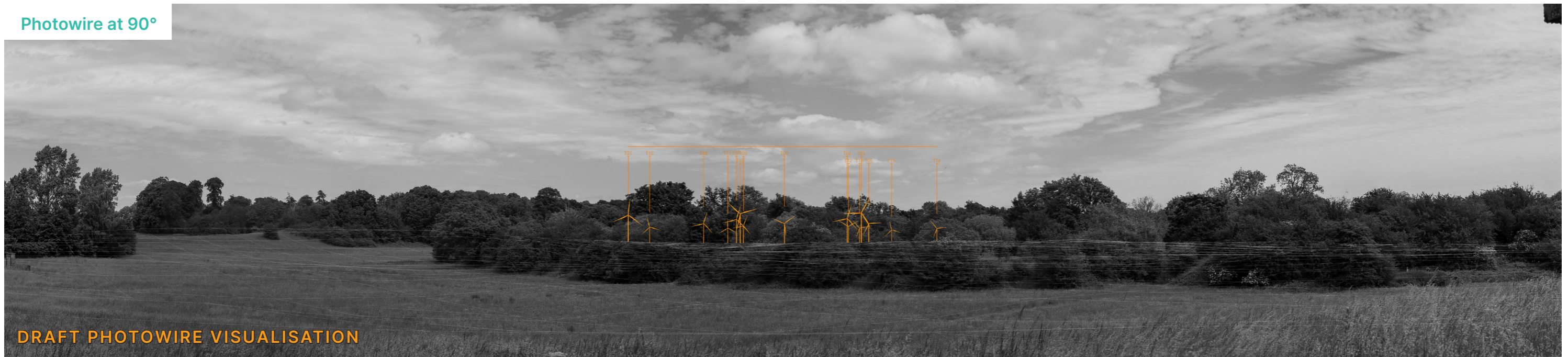
View from the Gallan Abbey / Cemetery, in the towland of Gallan. Located approximately 4km from the nearest proposed turbine (T03).



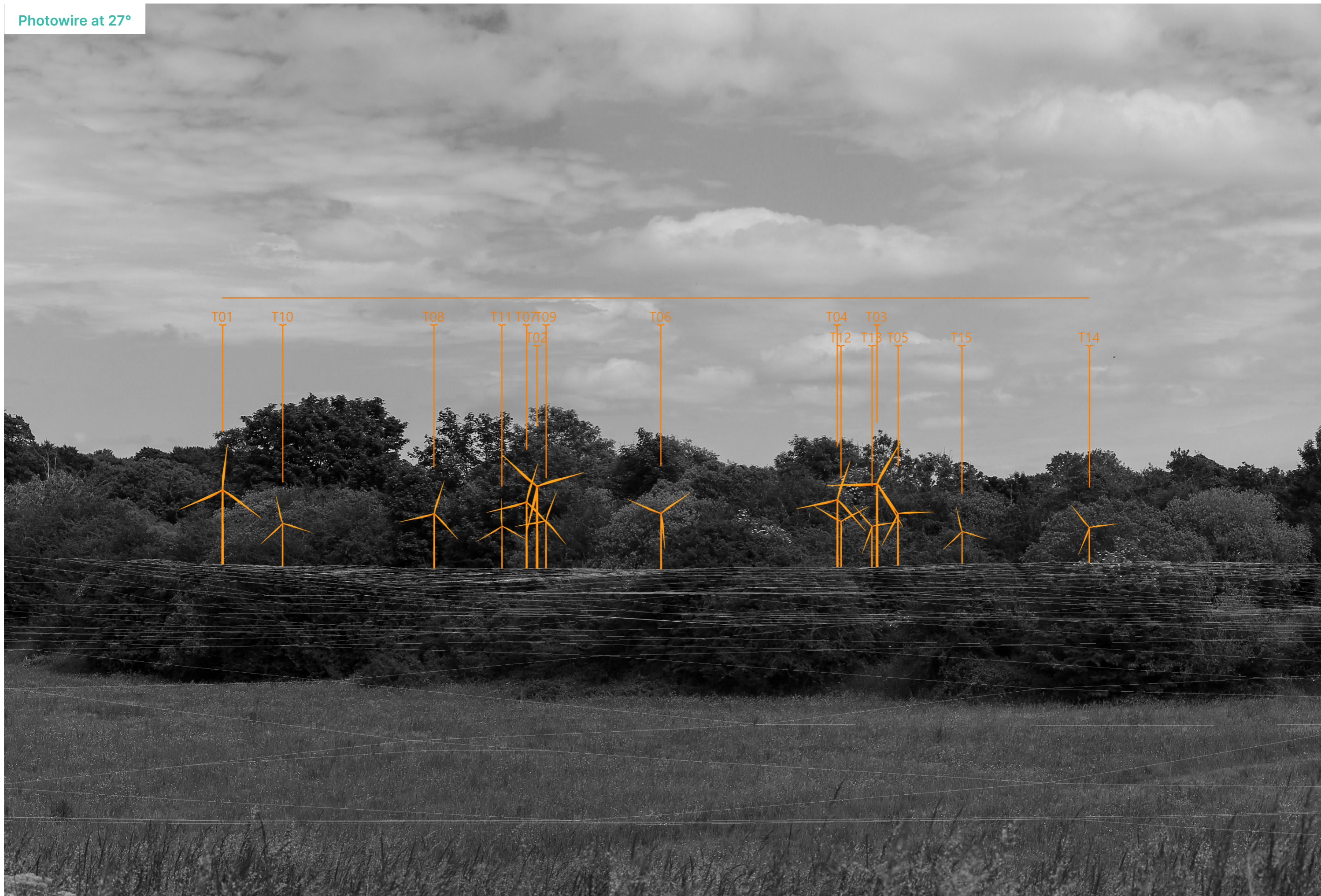
Existing View at 120°



Photowire at 90°



Photowire at 27°

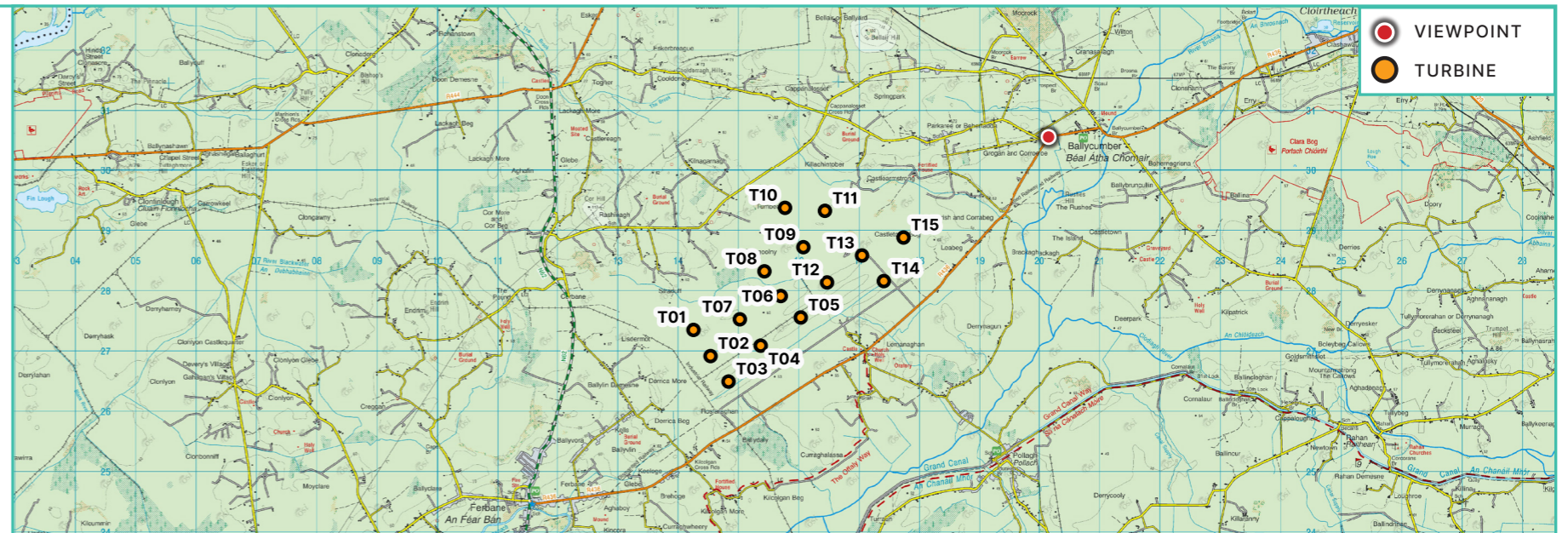


# PWVP-H

E 620076 N 730584

## Grogan / Corroe

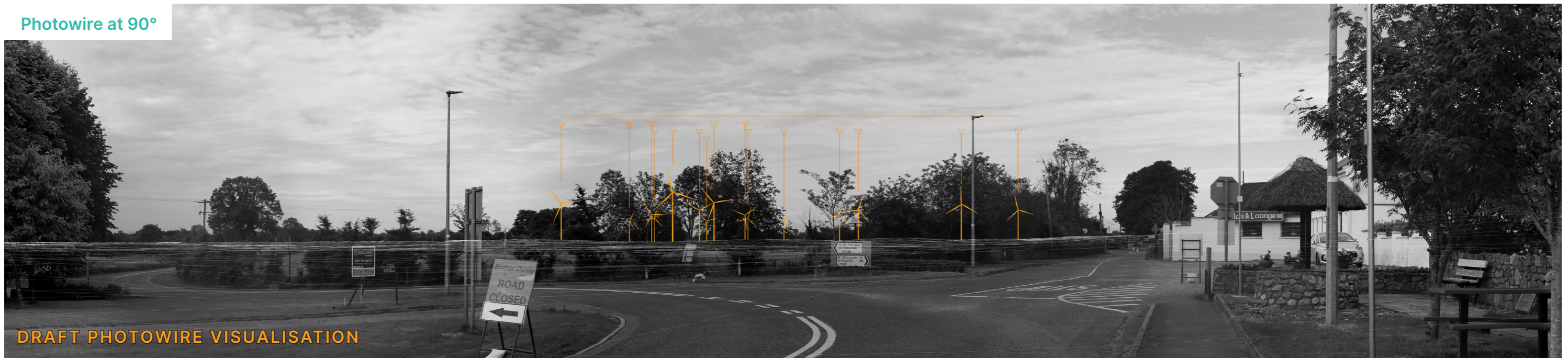
View from the R436 Regional Road, within the townland of 'Grogan and Corroe' outside Ballycumber. Located approximately 2.9km from the nearest proposed turbine (T15).



Existing View at 120°

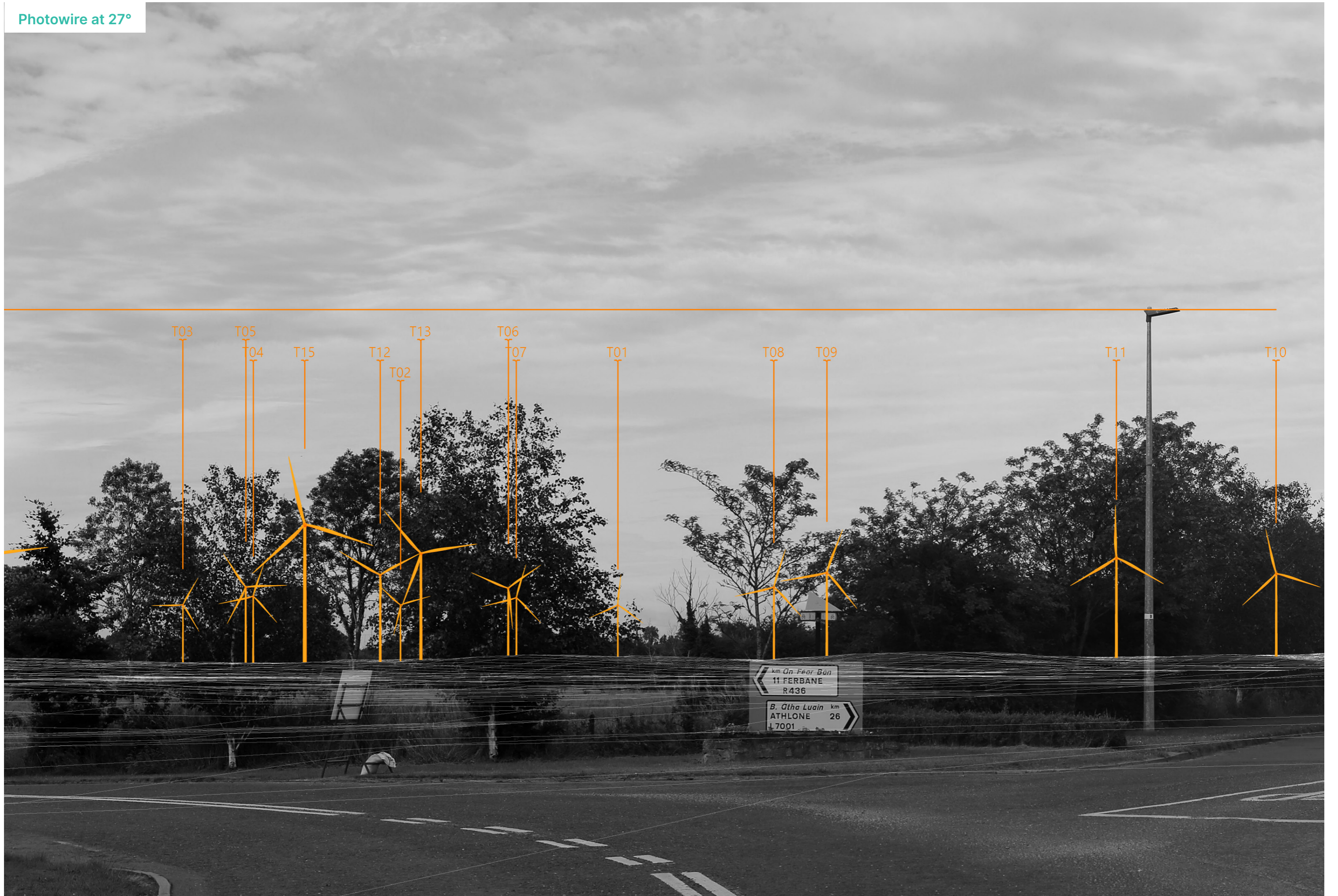


Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

Photowire at 27°

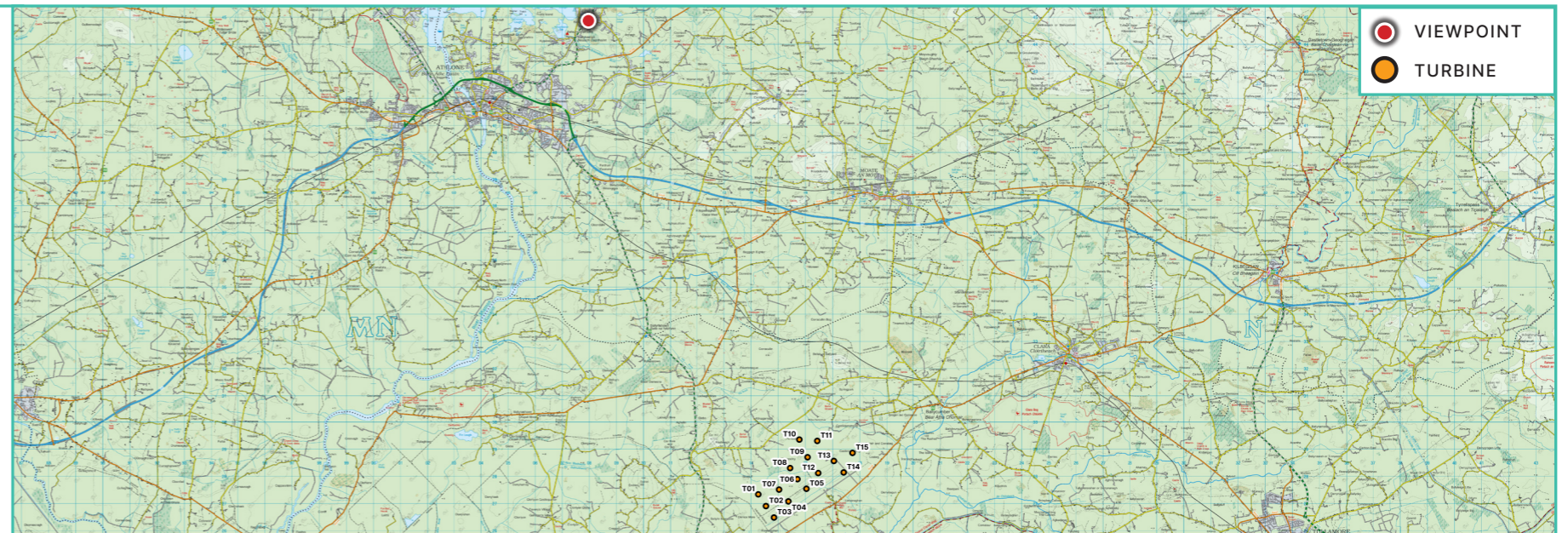


# PWVP-1

E 607955 N 745002

## Ballaghkeeran Big

View from the N55 National Road in the townland of Ballaghkeeran Big at Lough Ree, located approximately 17.4km from the nearest proposed turbine (T10).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

Photowire at 27°



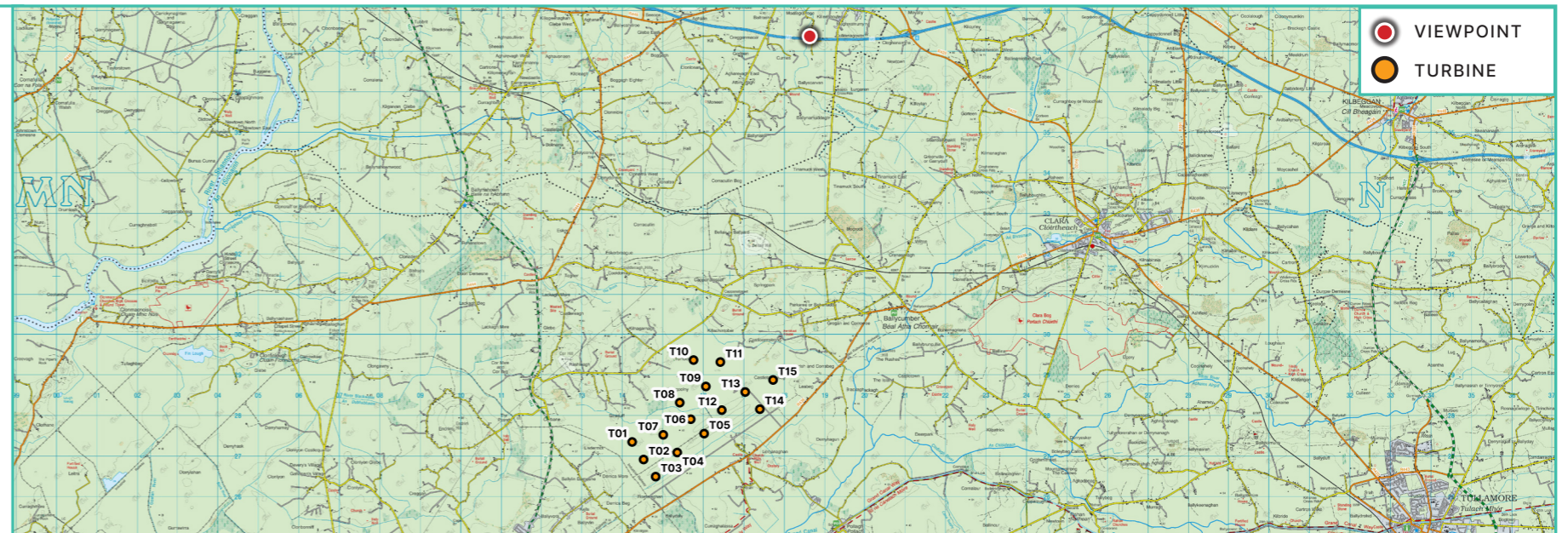
DRAFT PHOTOWIRE VISUALISATION

# PWVP-J

E 618594 N 737354

## Moategranoge

View from the L5311 Local Road in the townland of Moategranoge, located approximately 8.3km from the nearest proposed turbine (T11).



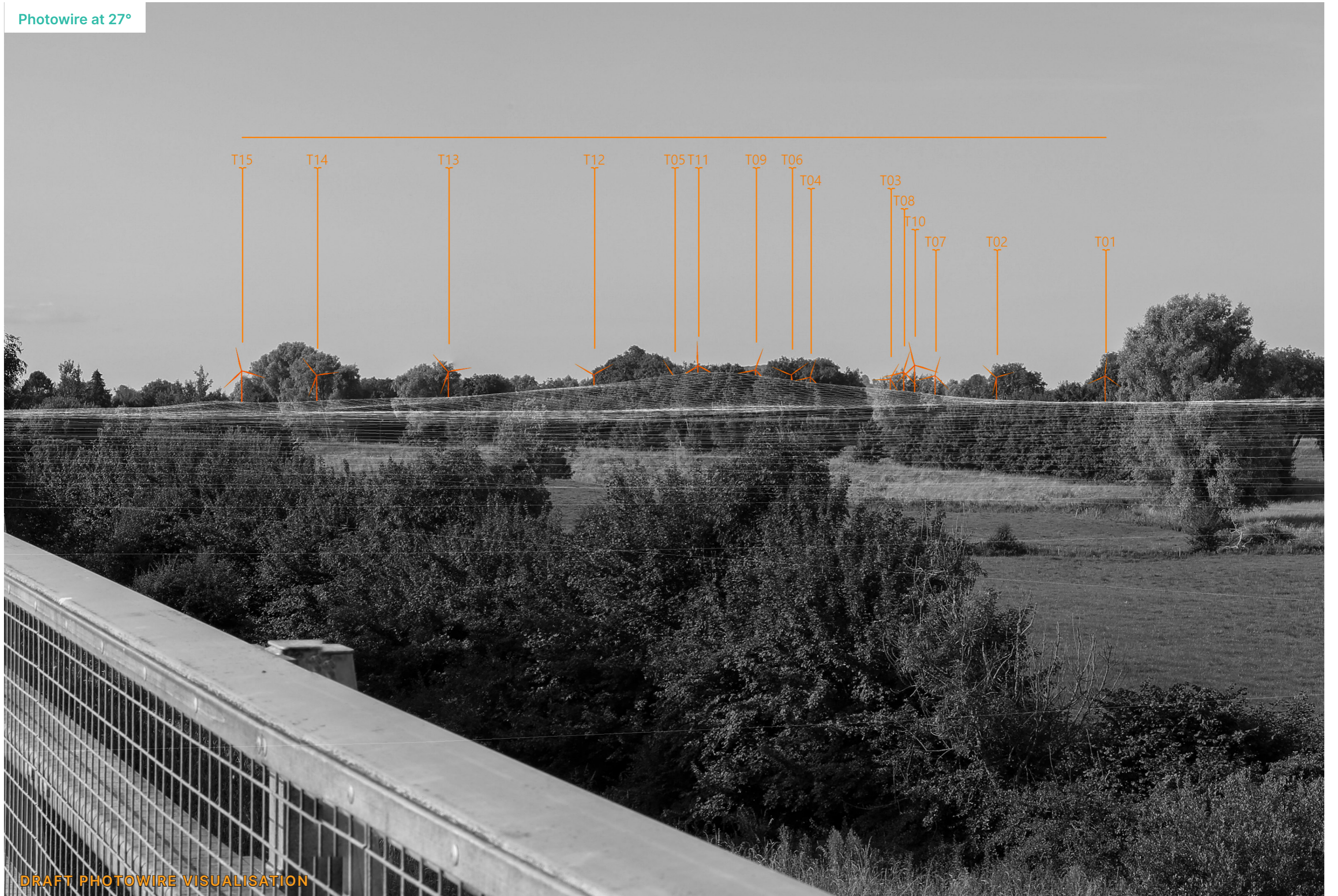
Existing View at 120°



Photowire at 90°



Photowire at 27°



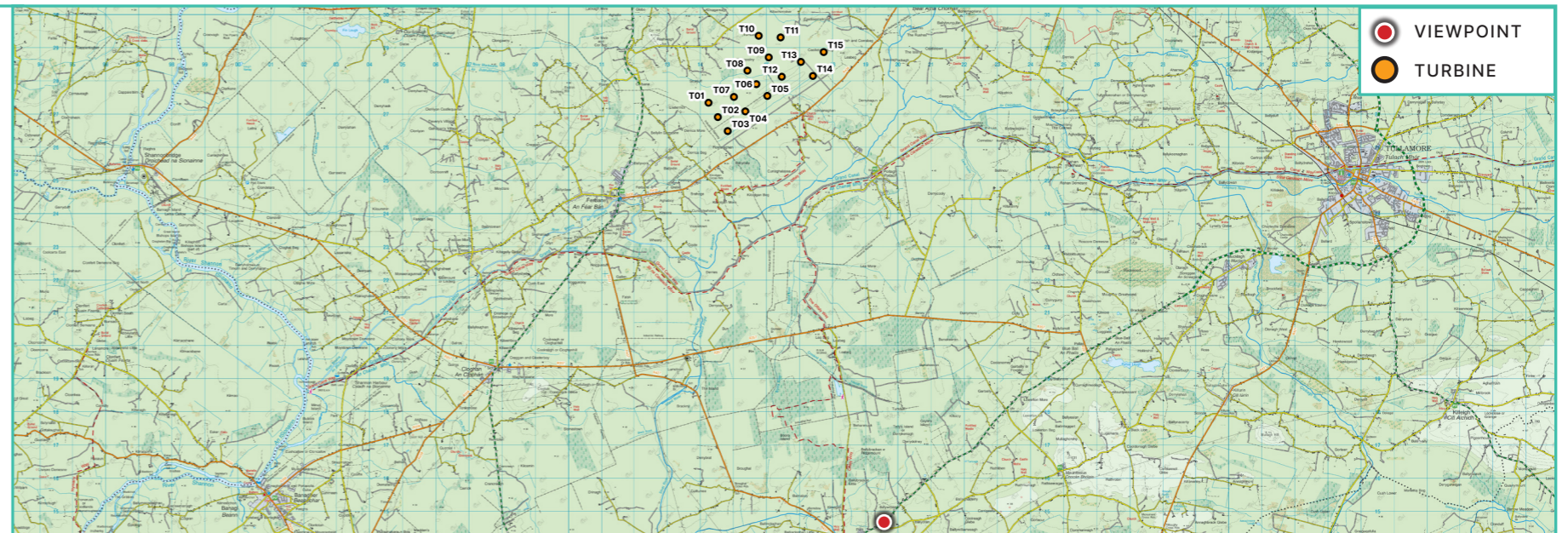
DRAFT PHOTOWIRE VISUALISATION

# PWVP-K

E 619462 N 714640

## Ballybrackan/Ridgemount

View from the N52 National Road exiting Kilcormac, within the townland of Ballybrackan/Ridgemount. Located approximately 12.8km south from the nearest proposed turbine (T03).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

Photowire at 27°



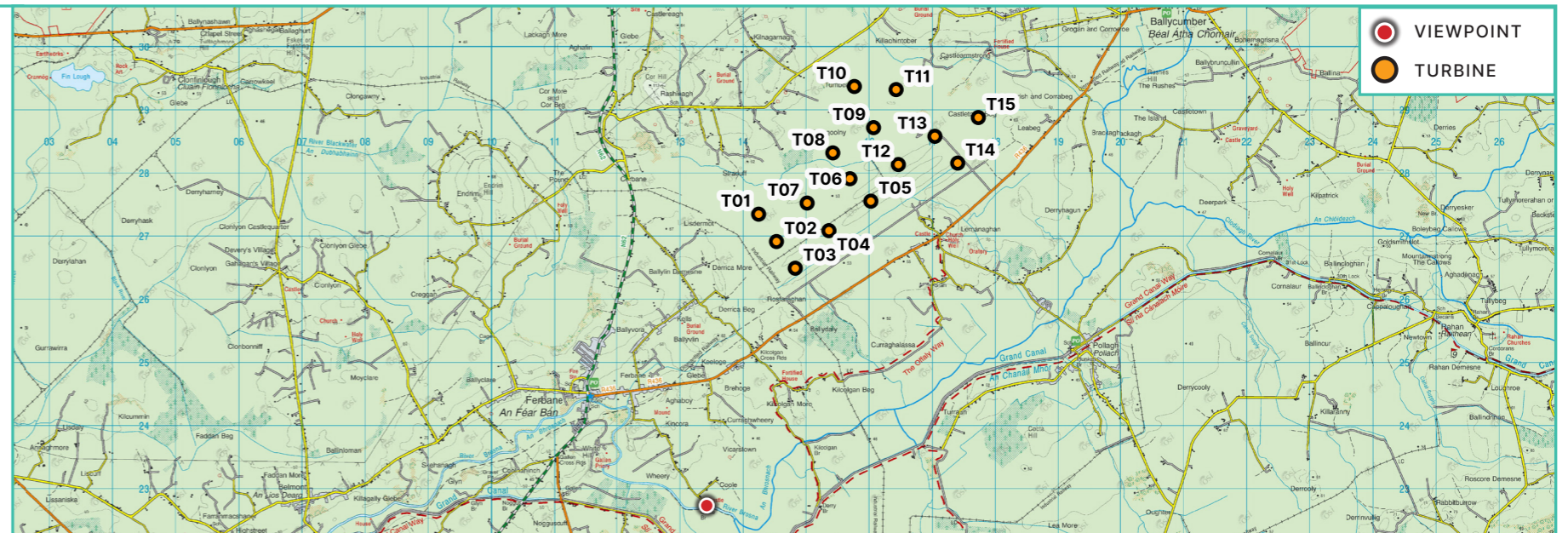
DRAFT PHOTOWIRE VISUALISATION

# PWVP-L

E 613355 N 722756

## Coole Castle

View from Coole Castle, located approximately 4km from the nearest proposed turbine (T03).



Existing View at 120°



Photowire at 90°



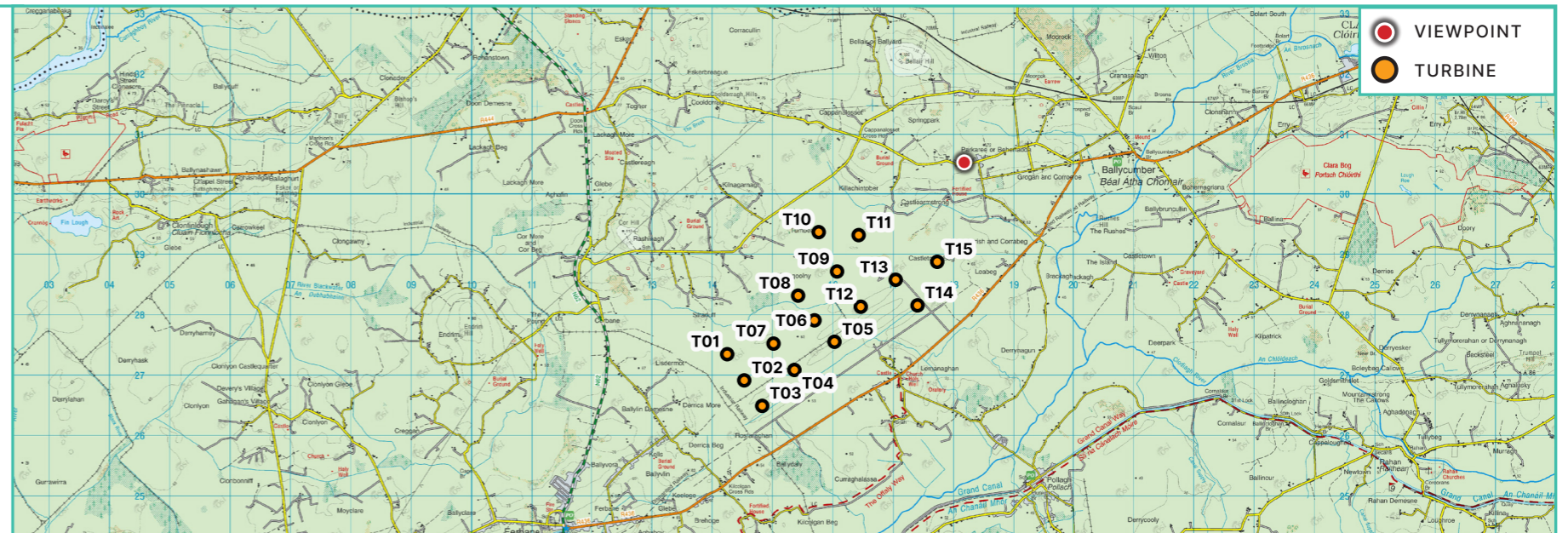


# PWVP-M

E 618145 N 730518

## Parkaree or Boherfadda

View from the L7001 Local Road in the townland of Parkaree/Boherfadda, located approximately 2.1km north-east from the nearest proposed turbine (T11).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

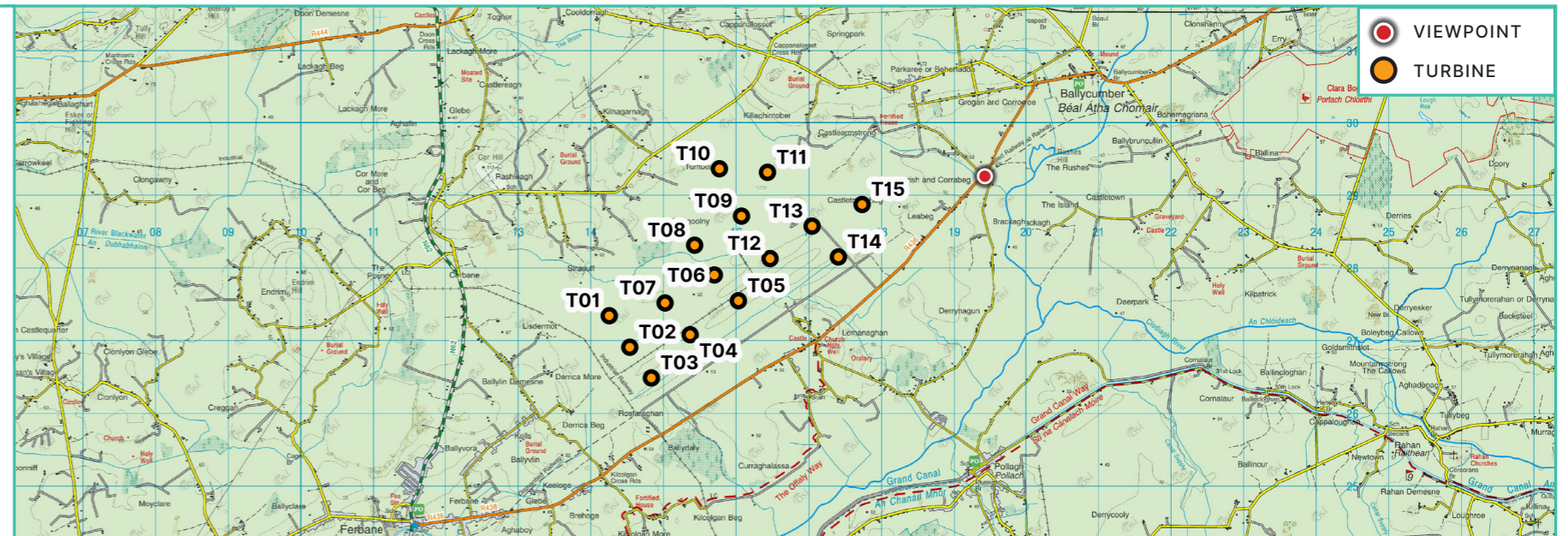


# PWVP-N

E 619374 N 729291

## Cornafurrish / Corrabeg

View from the R436 Regional Road, in the townland of Cornafurrish and Corrabeg, located approximately 1.7km from the nearest proposed turbine (T15).



Existing View at 120°



Photowire at 90°



Photowire at 27°



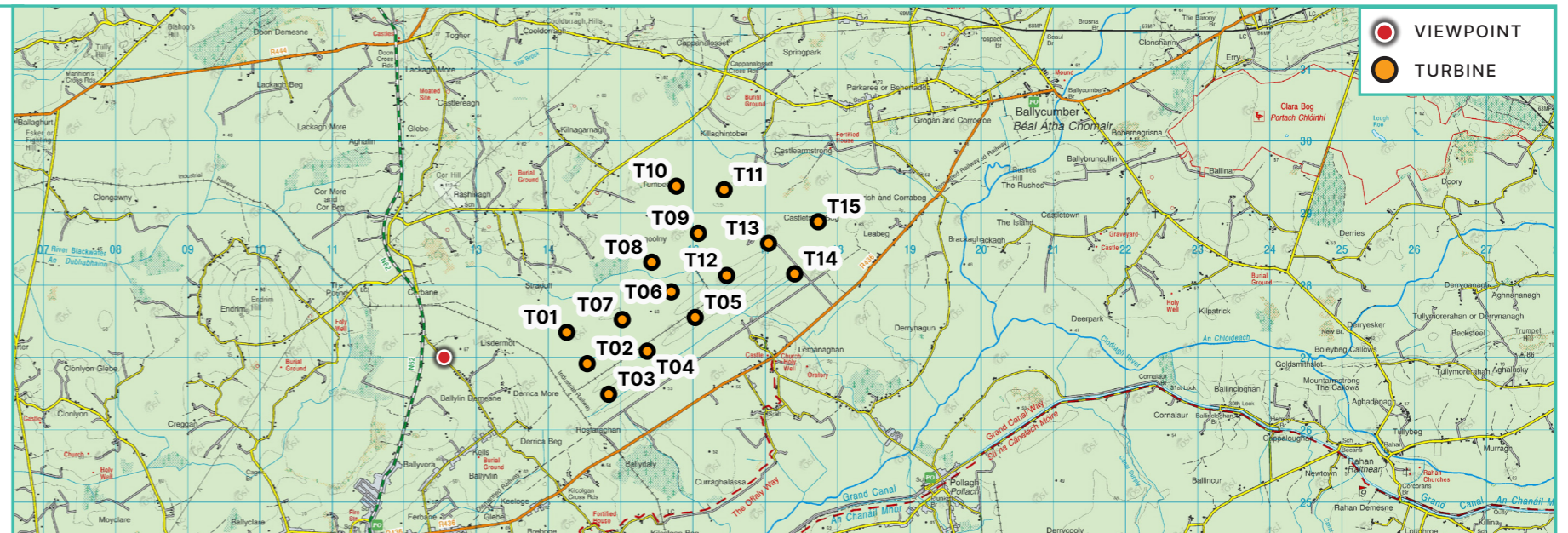
DRAFT PHOTOWIRE VISUALISATION

# PWVP-0

E 612511 N 727010

## Ballylin

View from the L70075 Local Road, in the townland of Ballylin, located approximately 1.7km from the nearest proposed turbine (T01).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION

Photowire at 27°



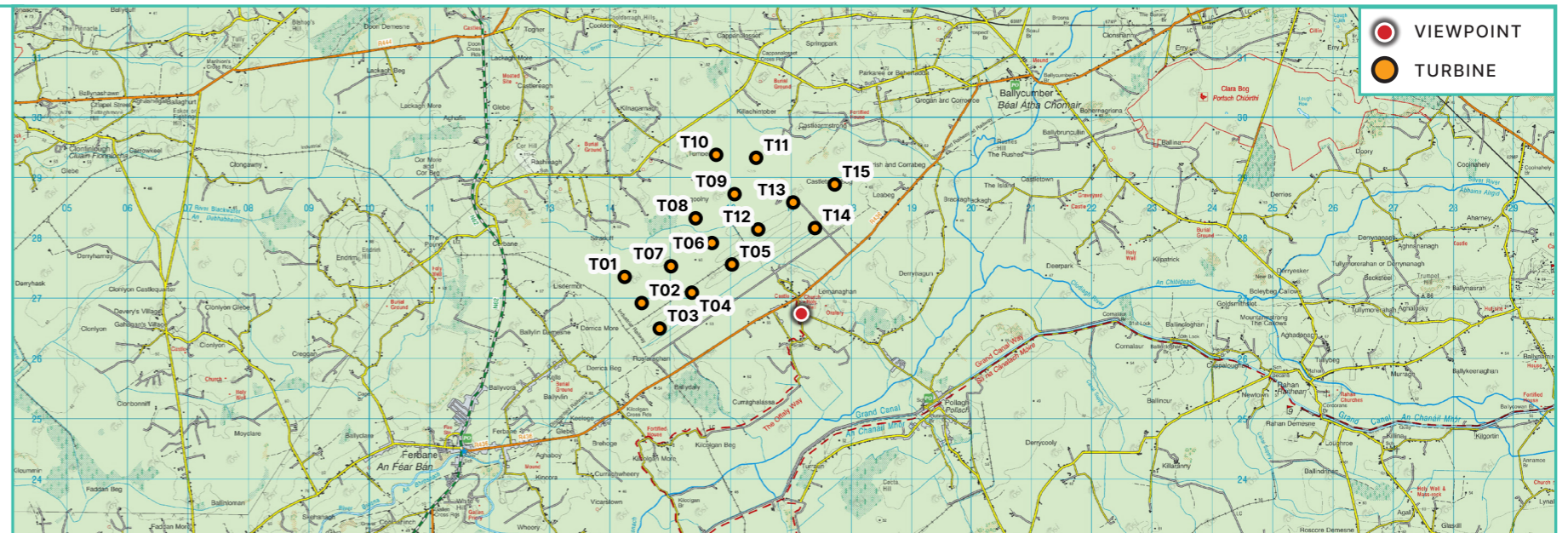
DRAFT PHOTOWIRE VISUALISATION

# PWVP-P

E 617128 N 726752

## Offaly Way

View from the L70202 Local Road within the townland of Lemanaghan, along the Offaly Way recreational route, located approximately 1.4km from the nearest proposed turbine (T05).



Existing View at 120°



Photowire at 90°



DRAFT PHOTOWIRE VISUALISATION



