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APPENDIX 13-5

**PHOTOWIRE VISUALISATION
BOOKLET**

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Appendix 13-5

Photowire Visualisation Booklet

**Proposed
Lackareagh Wind Farm**

PW No.	Description	E	GRID REF	N
PW-A	View from R494 Regional Road, east bank of Lough Derg at the west foot of Tountinna Mt, looking west over the lake and shoreline.	571875	678056	
PW-B	View from R494 Regional Road, east bank of Lough Derg, north of Killaloe, looking west towards Slieve Bernagh range.	570624	674688	
PW-C	View from Killaloe residential street above Our Lady & St Lua Church, looking west over Killaloe towards Slieve Bernagh range.	570701	673092	
PW-D	View from Killaloe walkway on the east bank of River Shannon at Our Lady & St Lua Church, looking west over Killaloe towards Slieve Bernagh range.	570580	673023	
PW-E	View from Killaloe Bridge, looking west over Killaloe and River Shannon towards Slieve Bernagh range.	570422	673127	
PW-F	View from Killaloe at St. Molua's Church and New Street.	570061	672996	
PW-G	View from The Gap Road/L7080 Local Road/East Clare Way at Gortcallyroe, approaching the site from the eastern slope of Glenagalliagh Mt.	565815	672323	
PW-H	View from the upper portion of Aillemore, on the eastern slope of Glenagalliagh Mt.	565231	673525	
PW-I	View from Kilbane on The Gap Road/L7080/East Clare Way.	562012	672652	
PW-J	View from Kilbane crossroad of L3022-8 Local Road and The Gap Road/L7080/East Clare Way.	561988	672637	
PW-K	View from Kilbane on L3022-8, north of the crossroad.	561856	672752	
PW-L	View from Ballymoloney residences on L3022-8, south of Kilbane at Glenomra River crossing.	562388	671887	
PW-M	View from Ballyquin Beg, south of the junction of Scenic Route SR-26/R466 Regional Road/L3022-8.	562178	670320	
PW-N	View from Clonlea Cemetery east of Kilkishen, near the southern-most point of Scenic Route SR-24, looking into Glenomra Valley through Broadford Gap.	550294	673089	
PW-O	View from R465 Regional Road north of Kilmore in Glenomra Valley.	560256	668509	
PW-P	View from Harols Cross Roads at R471 Regional Road and L3022-8.	560799	665416	
PW-Q	View from Limerick City at St Bridgid's Church and cemetery, looking north-northeast.	559172	656623	
PW-R	View from Limerick City at O'Malley Park, looking north.	559132	655407	

METHODOLOGY

Photowires

Methodology – What are Photowires and how are they produced?

All imagery captured from viewpoints for this LVIA (a total of 33 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

15 No. viewpoints were selected for inclusion in the Volume 2 Photomontage Booklet. Imagery captured from the other 18 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 18 No. photowires are presented within this Appendix are useful visual aids for the discussion of visual effects included in Section 13.7 of Chapter 13: Likely Significant Landscape and Visual Effects. The location of photowire viewpoints in this Appendix are marked as orange icons in mapping figures throughout Chapter 13, labelled as 'PW' (e.g., PW-A to PW-R).

Photowires are not used for Cumulative Assessment

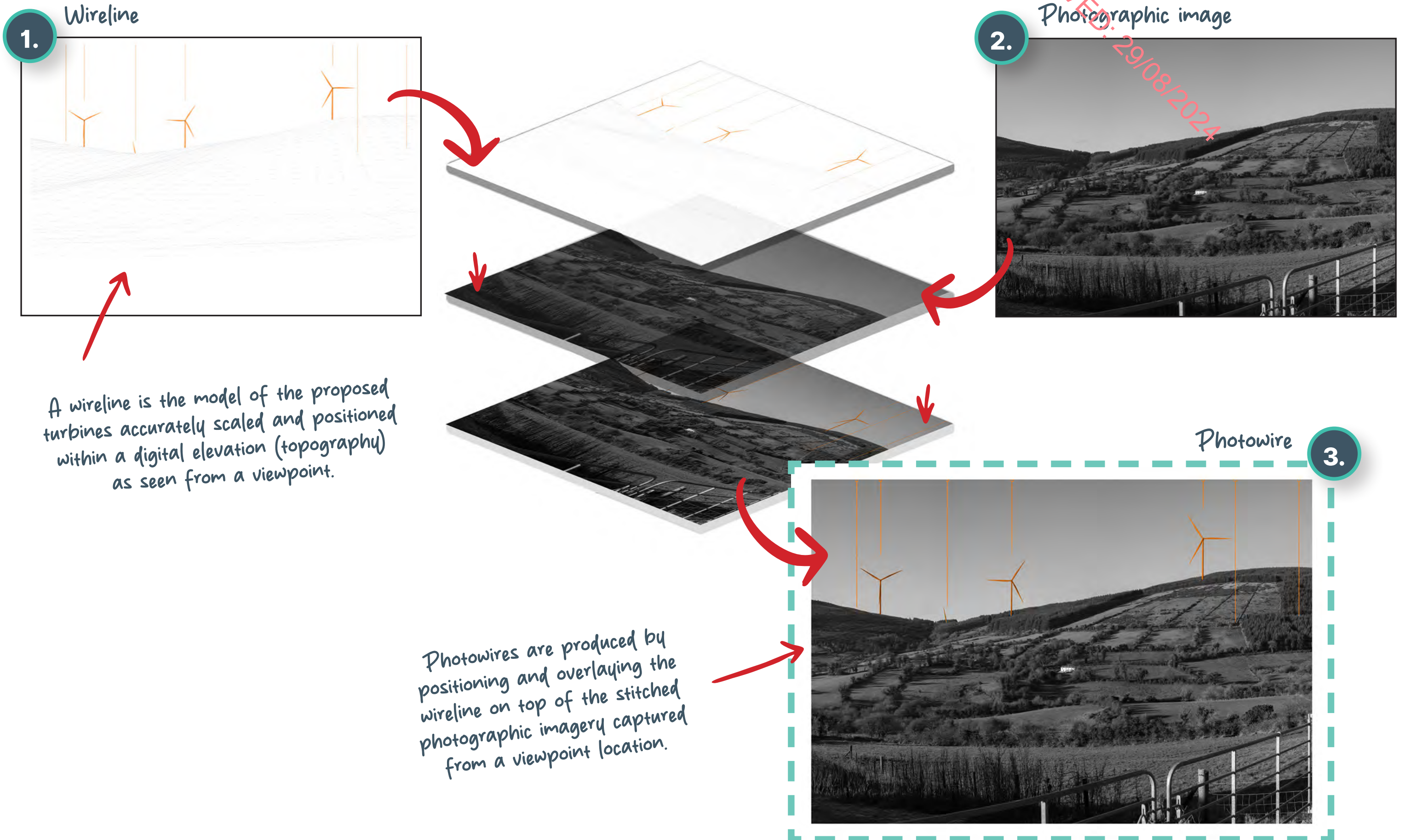
It should be emphasised that photowires are useful visual aids to inform the impact assessment; however, they do not include modelling of other existing, permitted, or proposed wind energy developments and are therefore not used for the assessment of cumulative effects. The Photomontage Booklet included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

PRODUCTION

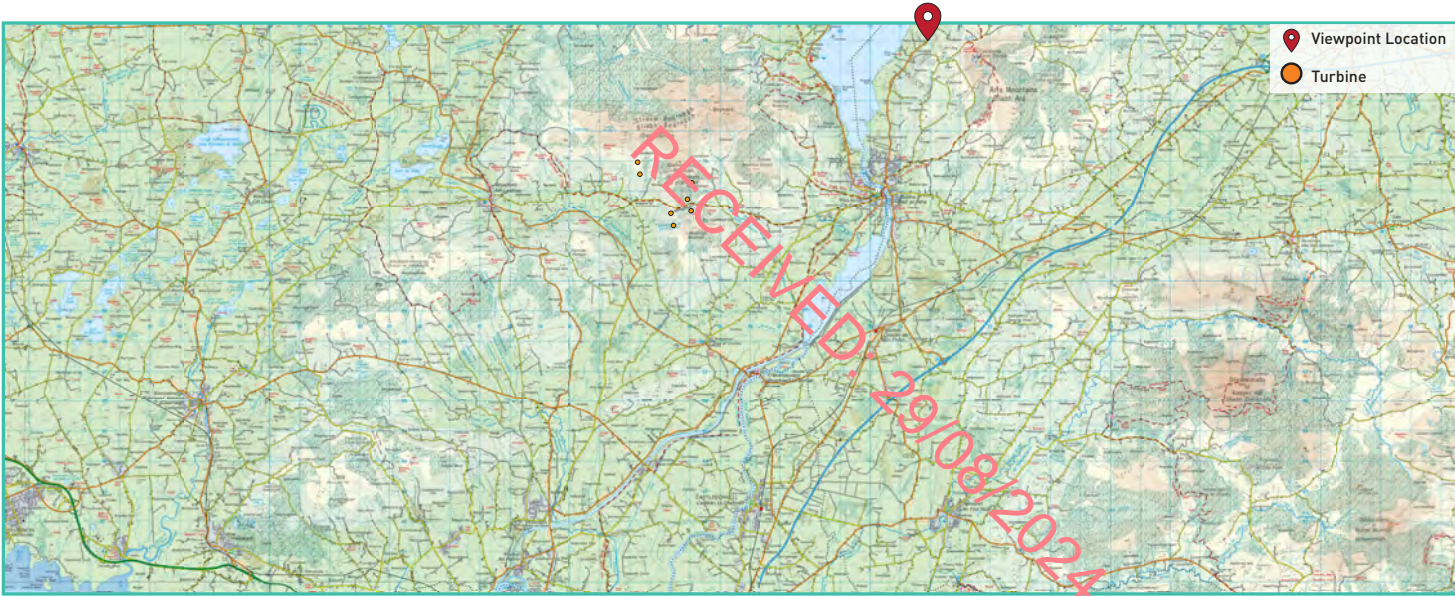
Photowires are a combination of photographic images and a 'wireline'.



PW-A

E 571875
N 678056

View from R494 Regional Road, east bank of Lough Derg at the west foot of Tountinna Mt, looking west over the lake and shoreline.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



'Photowire - DRAFT photomontage visualisation'

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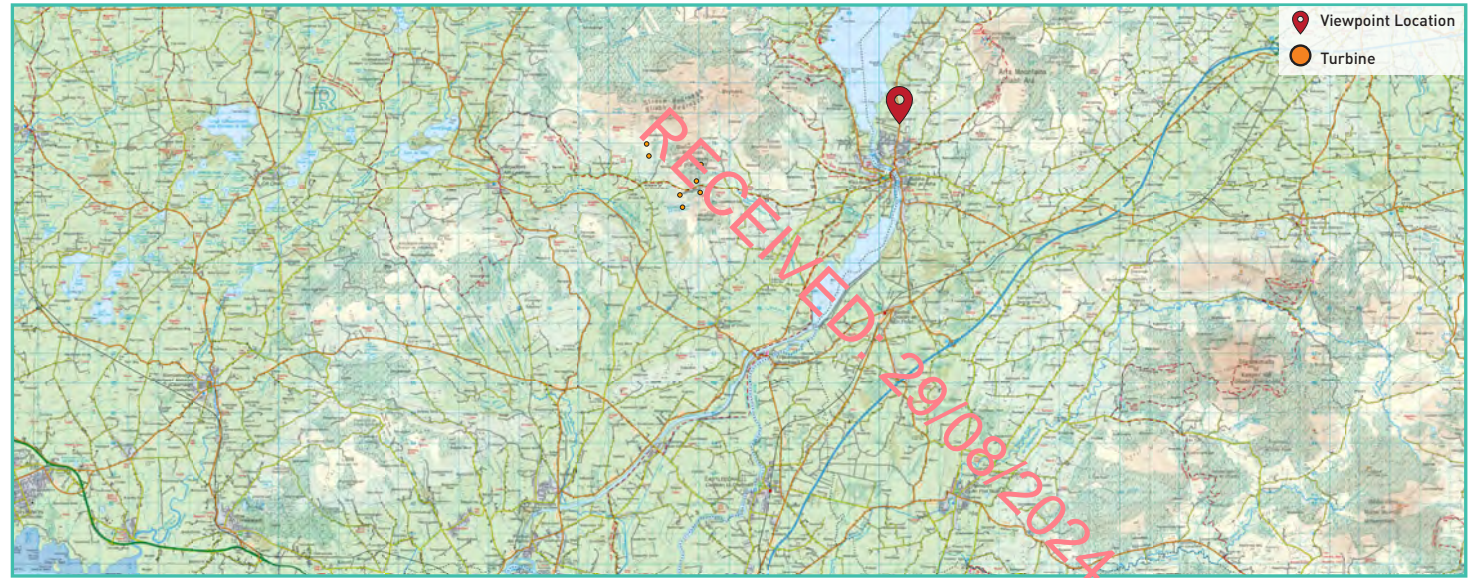
Proposed Lackareagh Wind Farm



PW-B

E 570624
N 674688

View from R494 Regional Road, east bank of Lough Derg, north of Killaloe, looking west towards Slieve Bernagh range.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°

Proposed Lackareagh Wind Farm

(Not visible - screened by topography)



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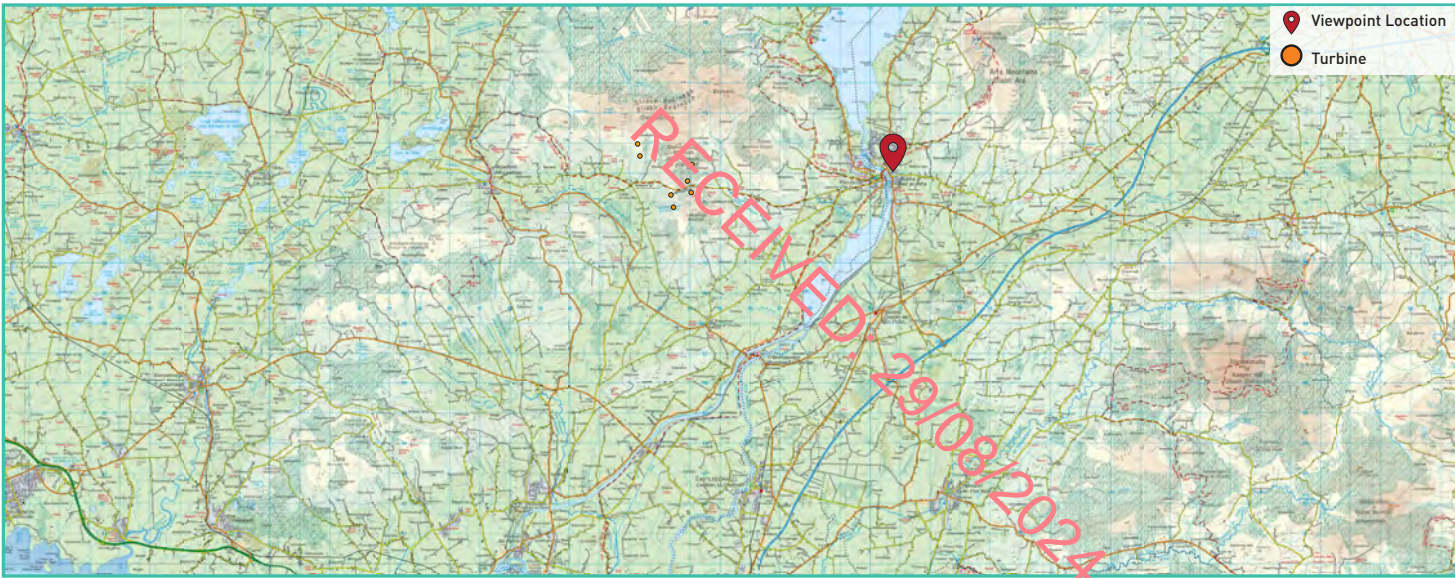
Proposed Lackareagh Wind Farm
(Not visible - screened by topography)



PW-C

E 570701
N 673092

View from Killaloe residential street above Our Lady & St Lua Church, looking west over Killaloe towards Slieve Bernagh range.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



Proposed Lackareagh Wind Farm

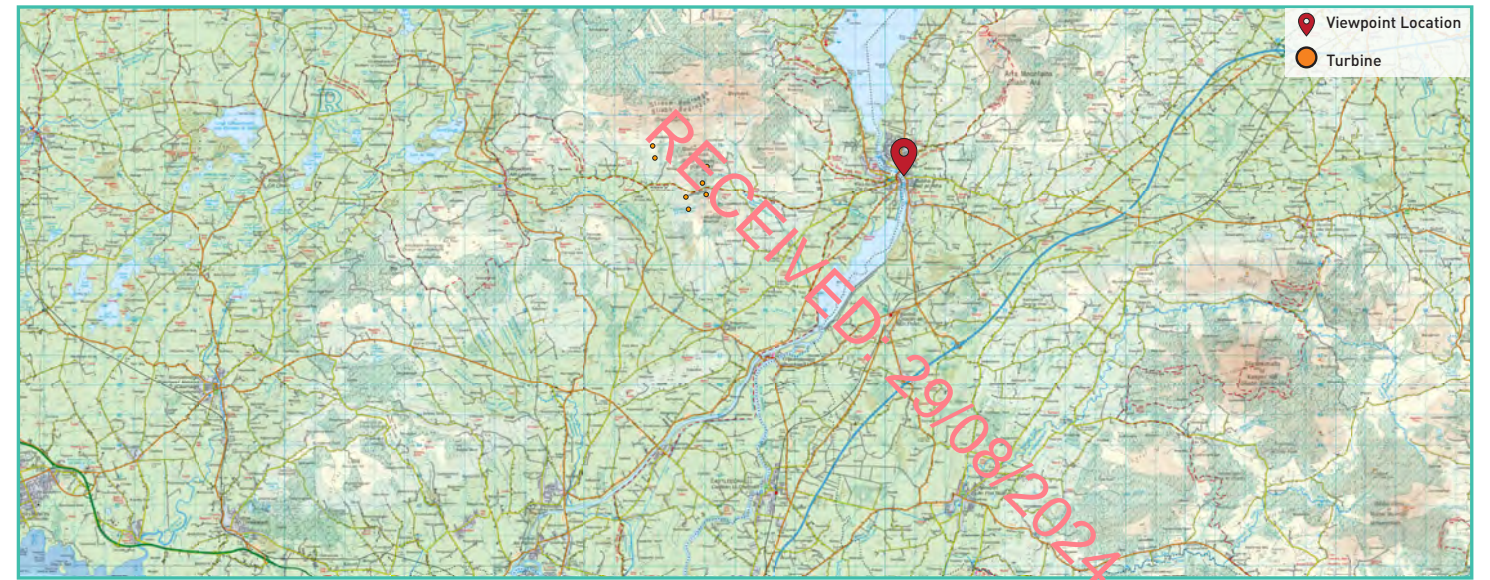
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PW-D

E 570580
N 673023

View from Killaloe walkway on the east bank of River Shannon at Our Lady & St Lua Church, looking west over Killaloe towards Slieve Bernagh range.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°

Proposed Lackareagh Wind Farm



Proposed Lackareagh Wind Farm

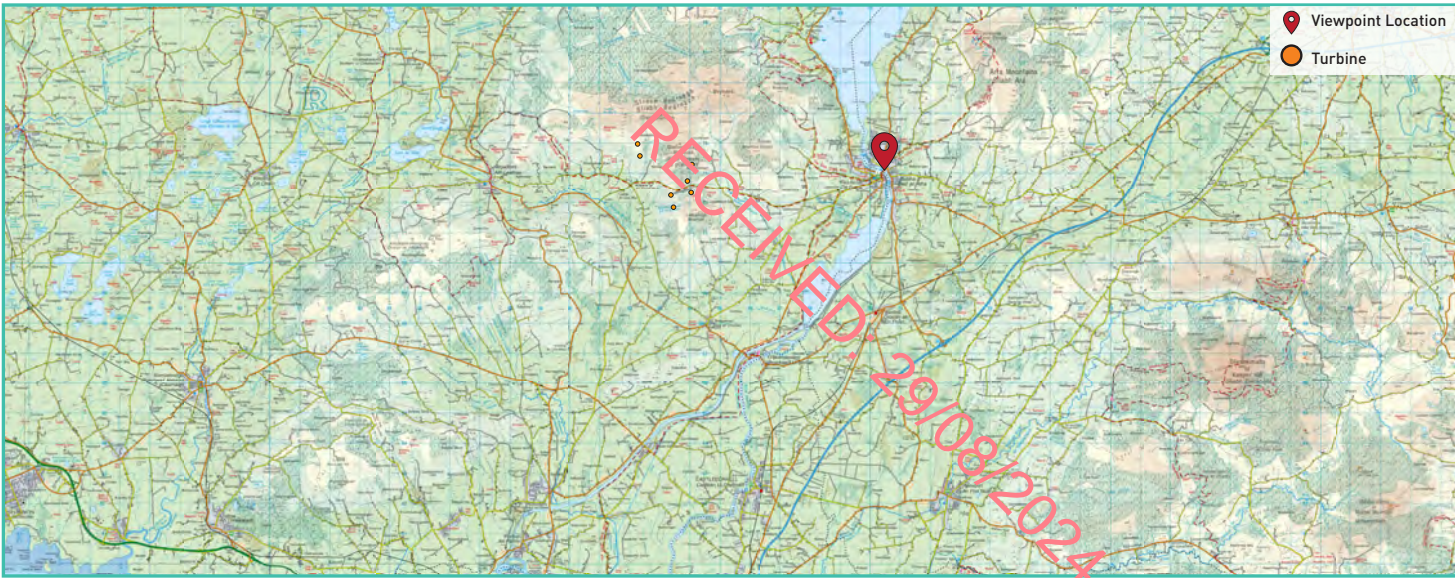
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PW-E

E 570422
N 673127

View from Killaloe Bridge, looking west over Killaloe and River Shannon towards Slieve Bernagh range.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



Proposed Lackareagh Wind Farm

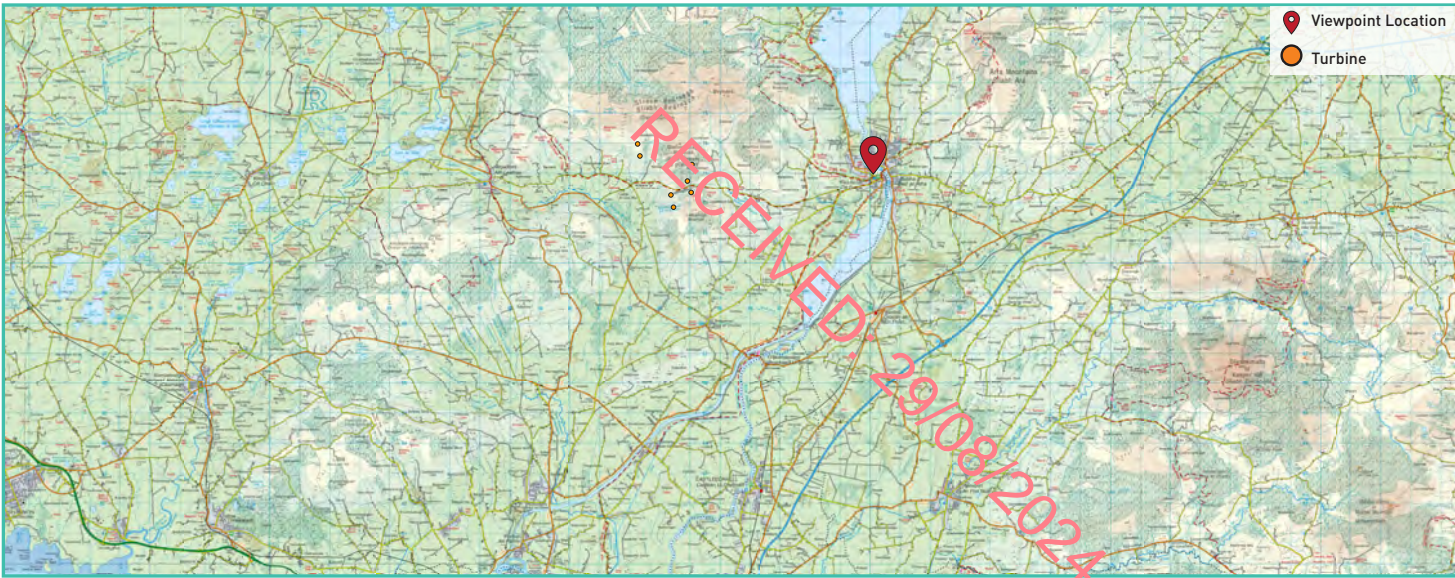
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PW-F

E 570061
N 672996

View from Killaloe at St. Molua's Church and New Street.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°

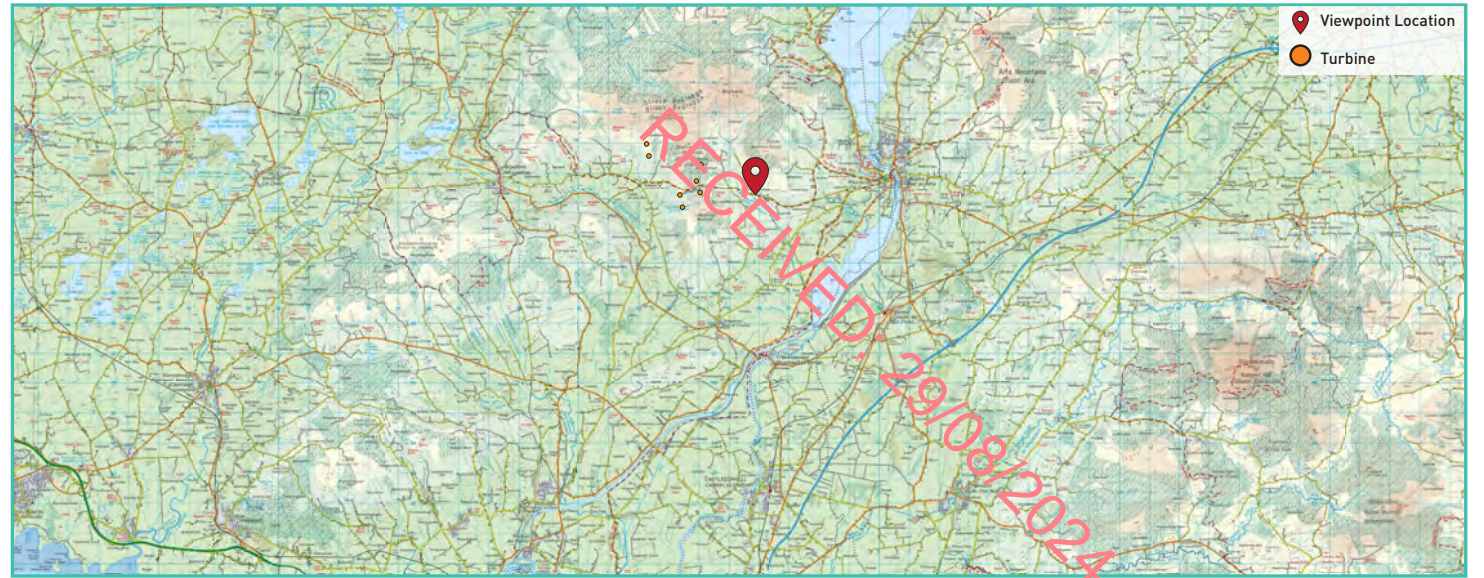




PW-G

E 565815
N 672323

View from The Gap Road/L7080 Local Road/East Clare Way at Gortcallyroe, approaching the site from the eastern slope of Glenagalliagh Mt.



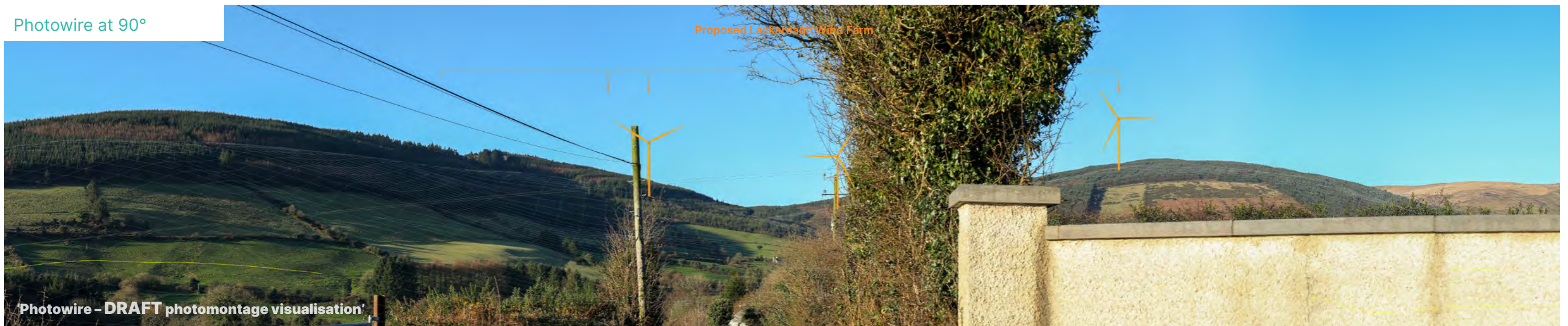
90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°

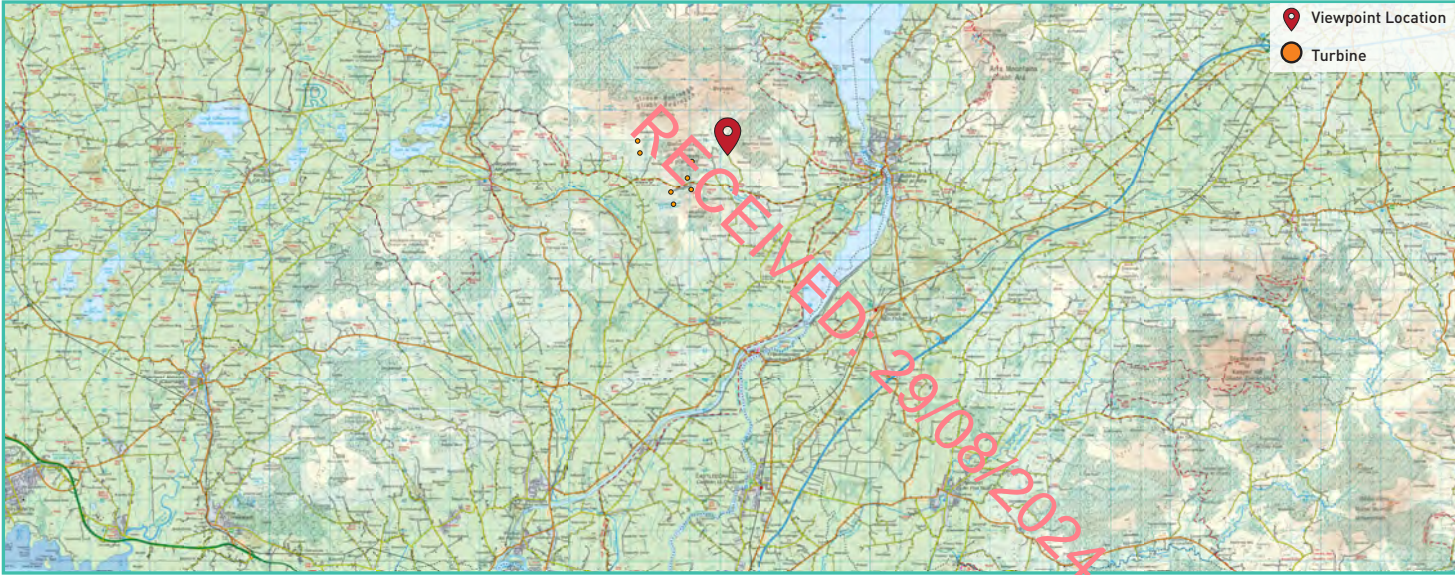




PW-H

E 565231
N 673525

View from the upper portion of Aillemore, on the eastern slope of
Glenagalliagh Mt.



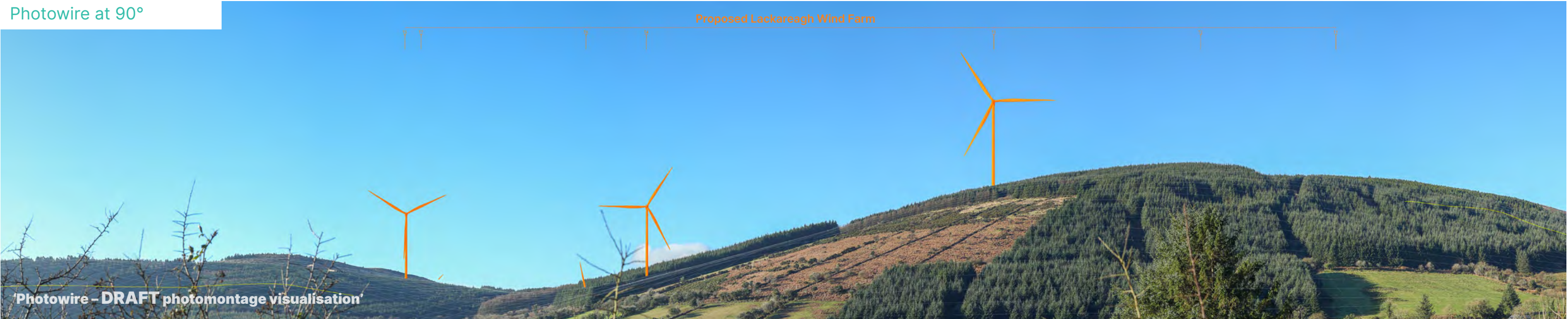
90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°

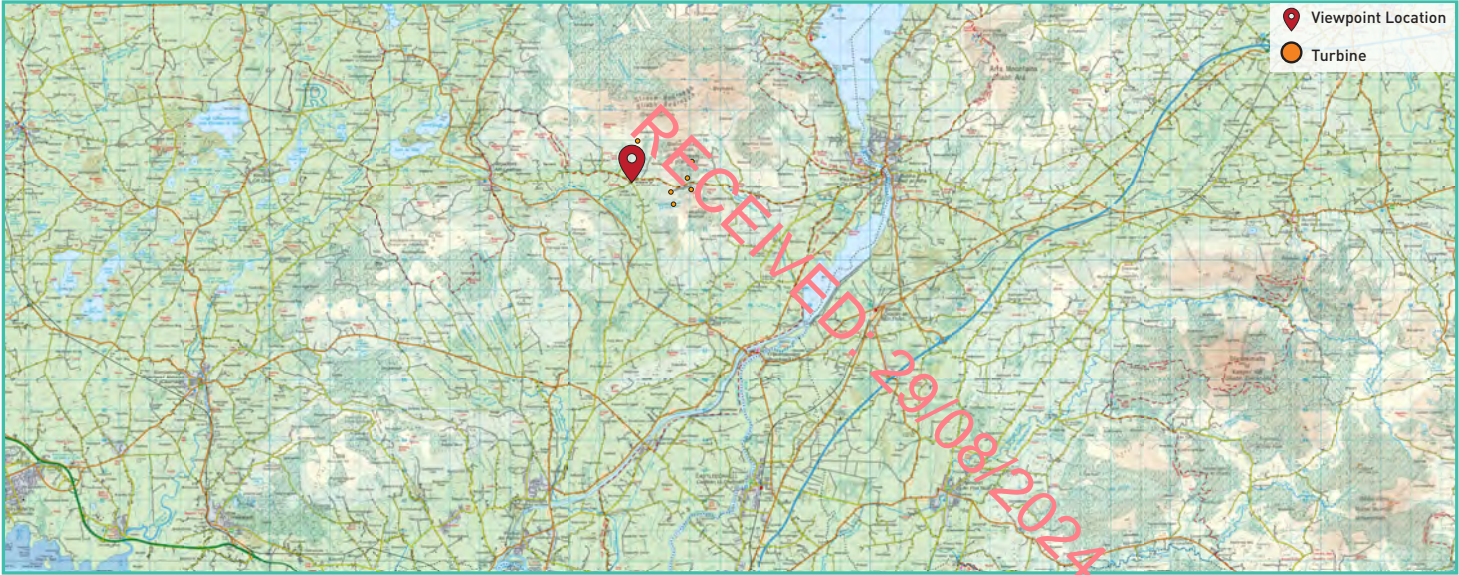




PW-I

E 562012
N 672652

View from Kilbane on The Gap Road/L7080/East Clare Way.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



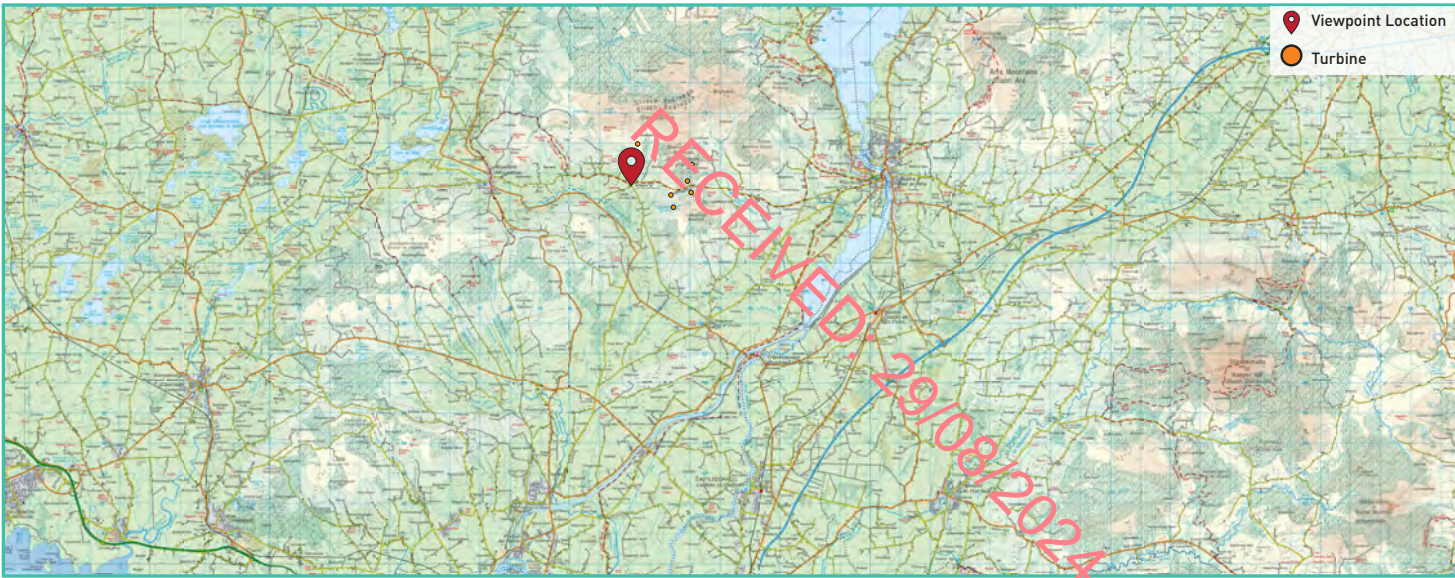
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PW-J

E 561988
N 672637

View from Kilbane crossroad of L3022-8 Local Road and The Gap Road/L7080/East Clare Way.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



Photowire - DRAFT photomontage visualisation

Proposed Lackareagh Wind Farm

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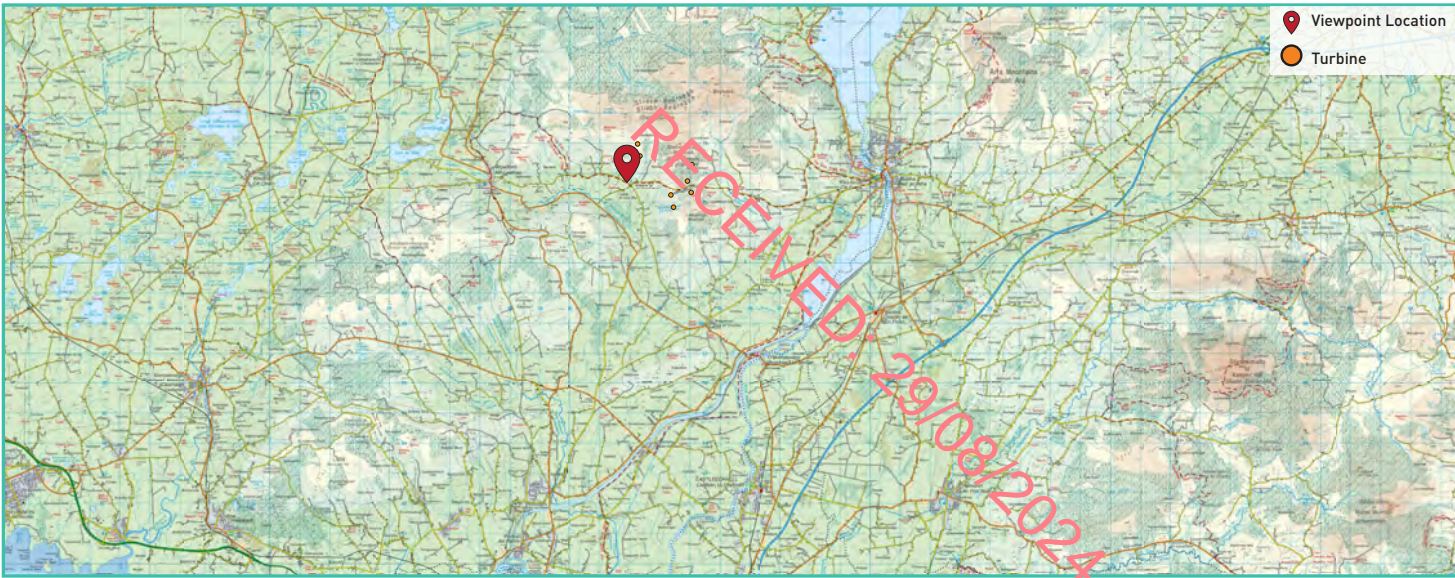


Sir Oirthear an Chlaire
EAST CLARE WAY

PW-K

E 561856
N 672752

View from Kilbane on L3022-8, north of the crossroad.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°

Proposed Lackareagh Wind Farm



'Photowire - DRAFT photomontage visualisation'

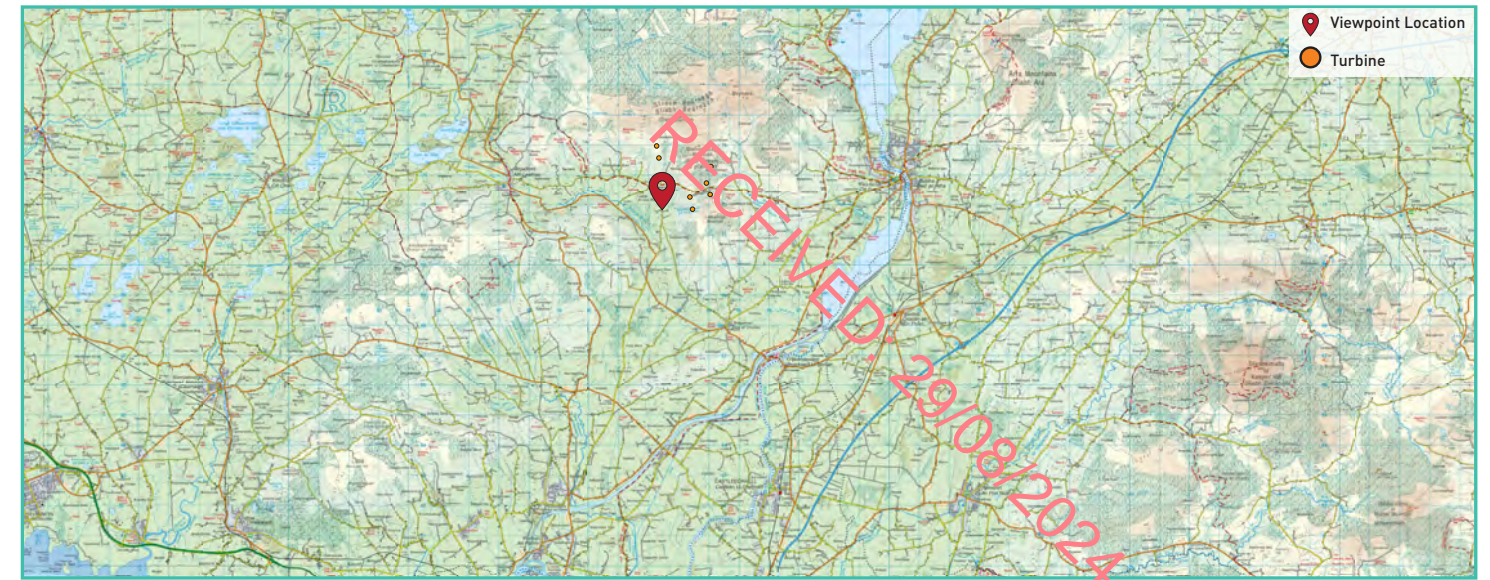
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PW-L

E 562388
N 671887

View from Ballymoloney residences on L3022-8, south of
Kilbane at Glenomra River crossing.



90° View Extent

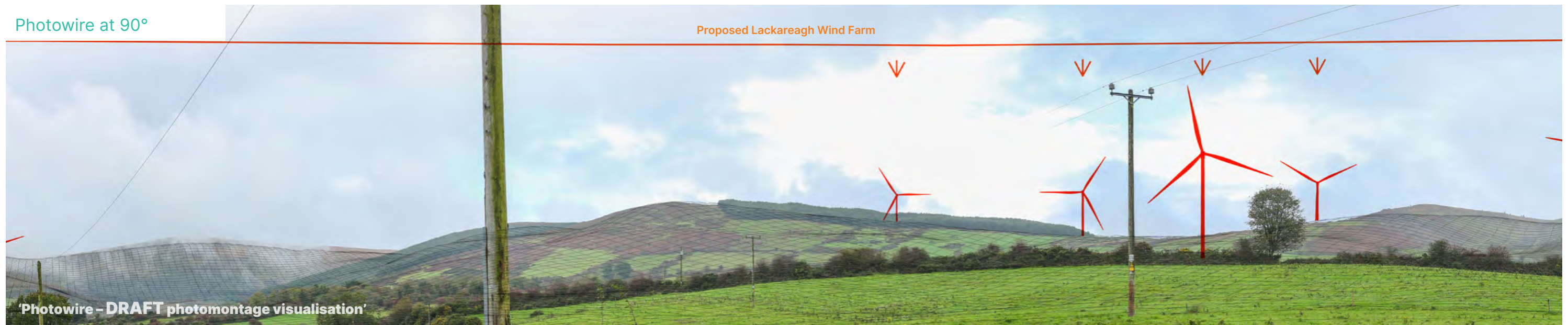
Existing View at 120°



27° View Extent

Photowire at 90°

Proposed Lackareagh Wind Farm



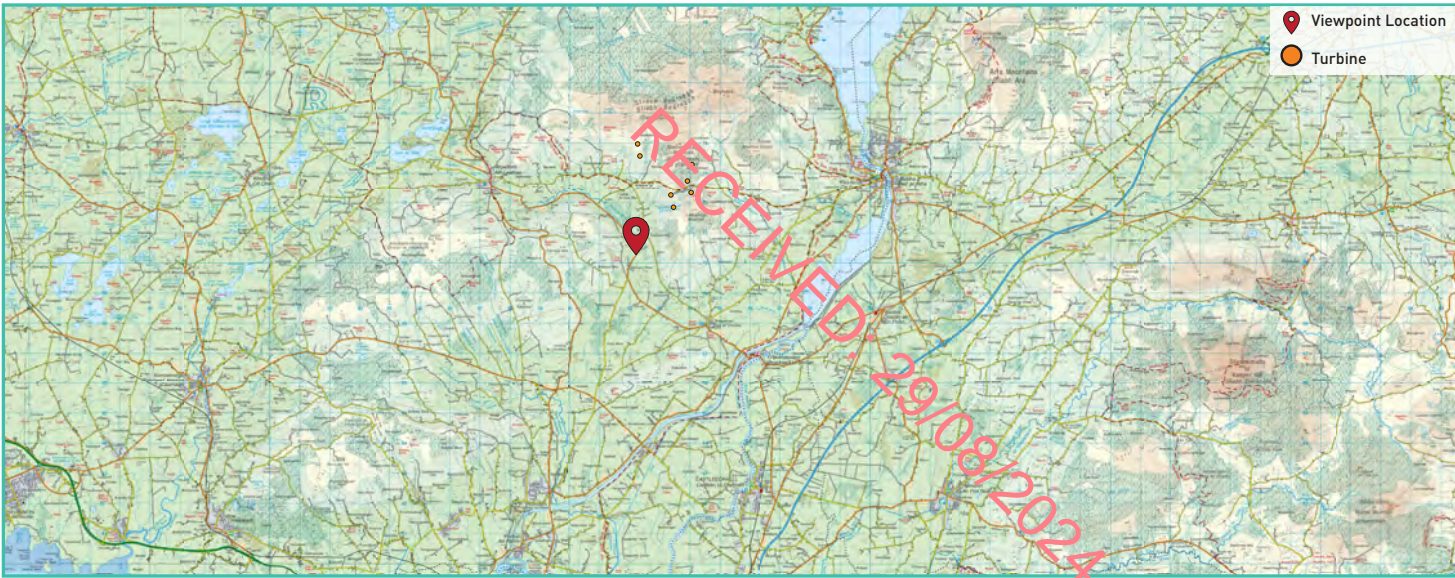
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PW-M

E 562178
N 670320

View from Ballyquin Beg, south of the junction of Scenic Route SR-26/
R466 Regional Road/L3022-8.



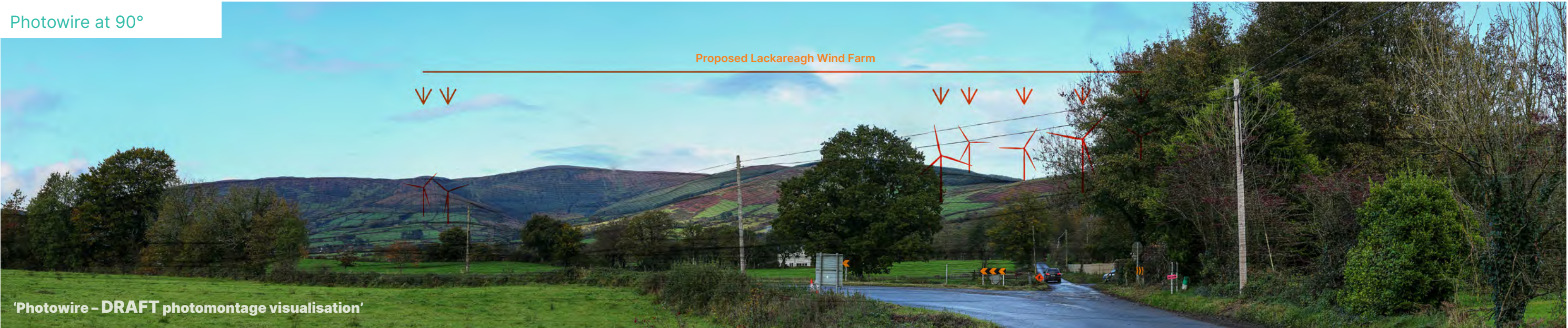
90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



'Photowire - DRAFT photomontage visualisation'

Proposed Lackareagh Wind Farm

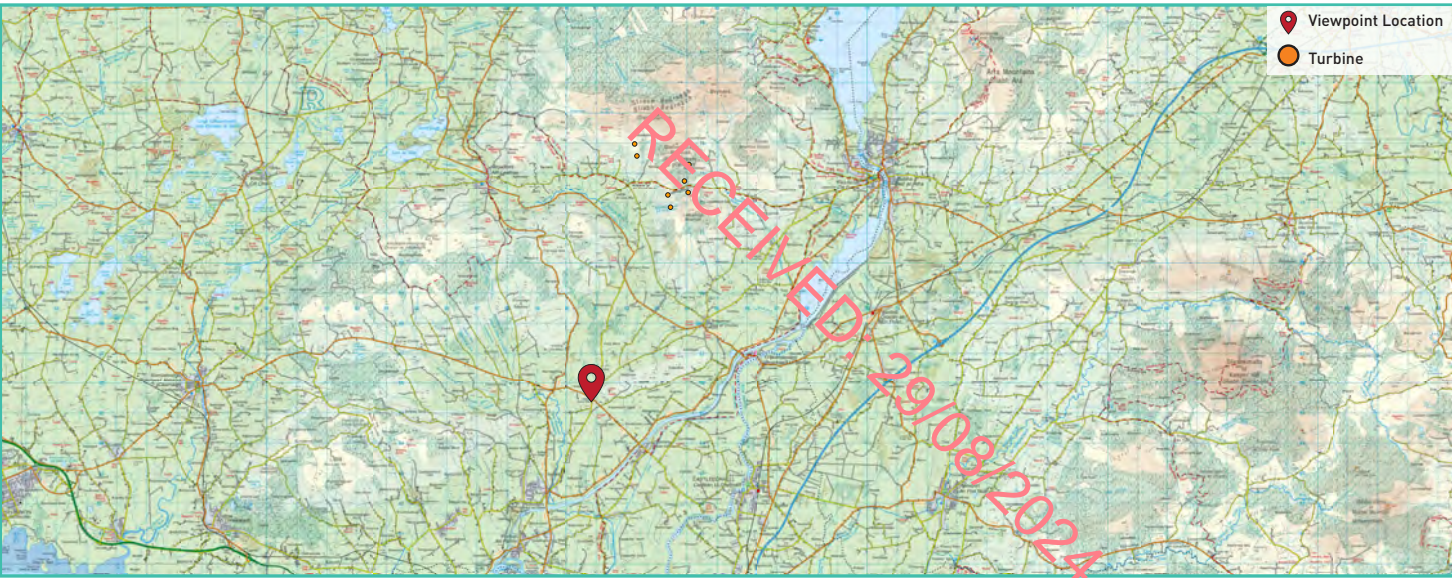
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PW-N

E 550294
N 673089

View from Clonlea Cemetery east of Kilkishen, near the southern-most point of Scenic Route SR-24, looking into Glenomra Valley through Broadford Gap.



90° View Extent

Existing View at 120°

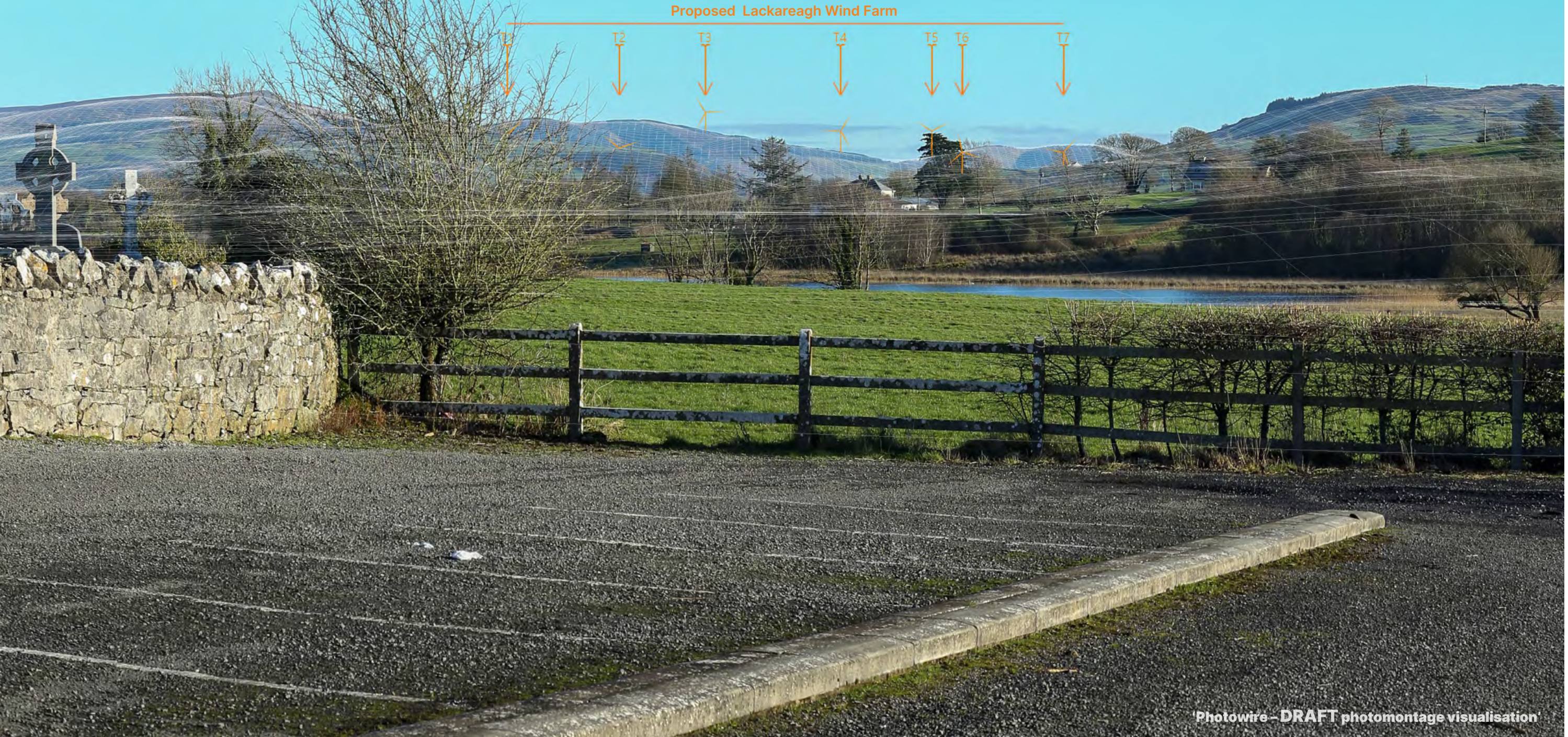


27° View Extent

Photowire at 90°



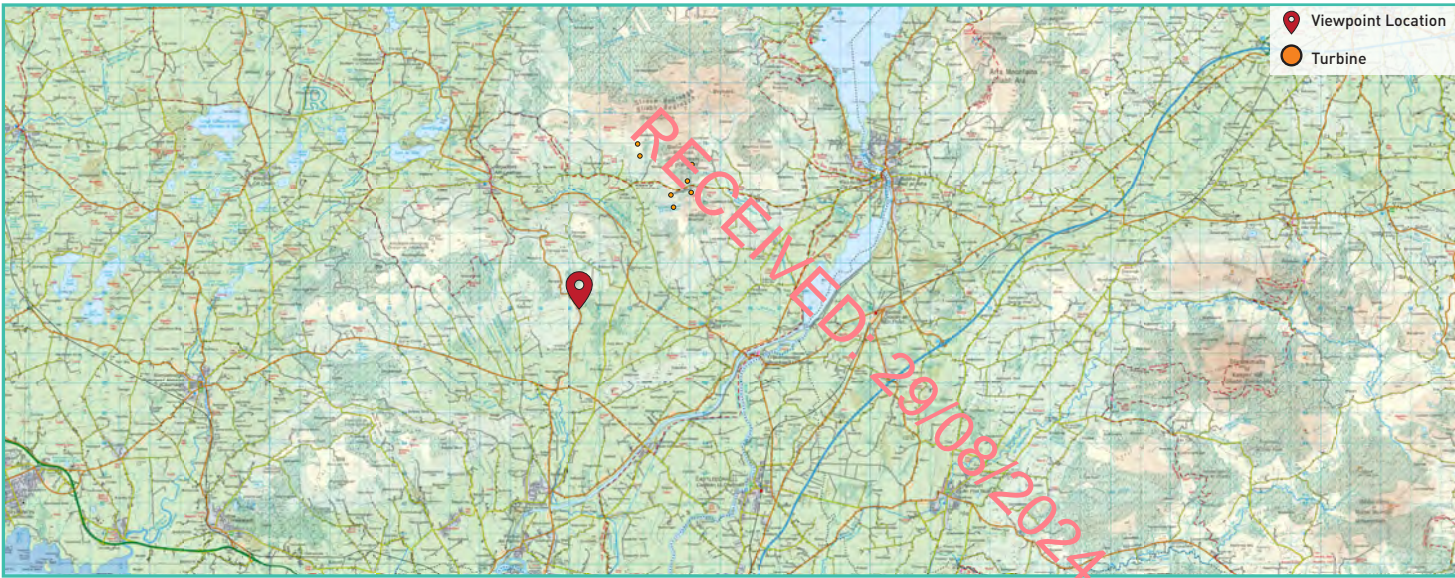
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PW-O

E 560256
N 668509

View from R465 Regional Road north of Kilmore in Glenomra Valley.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



Proposed Lackareagh Wind Farm

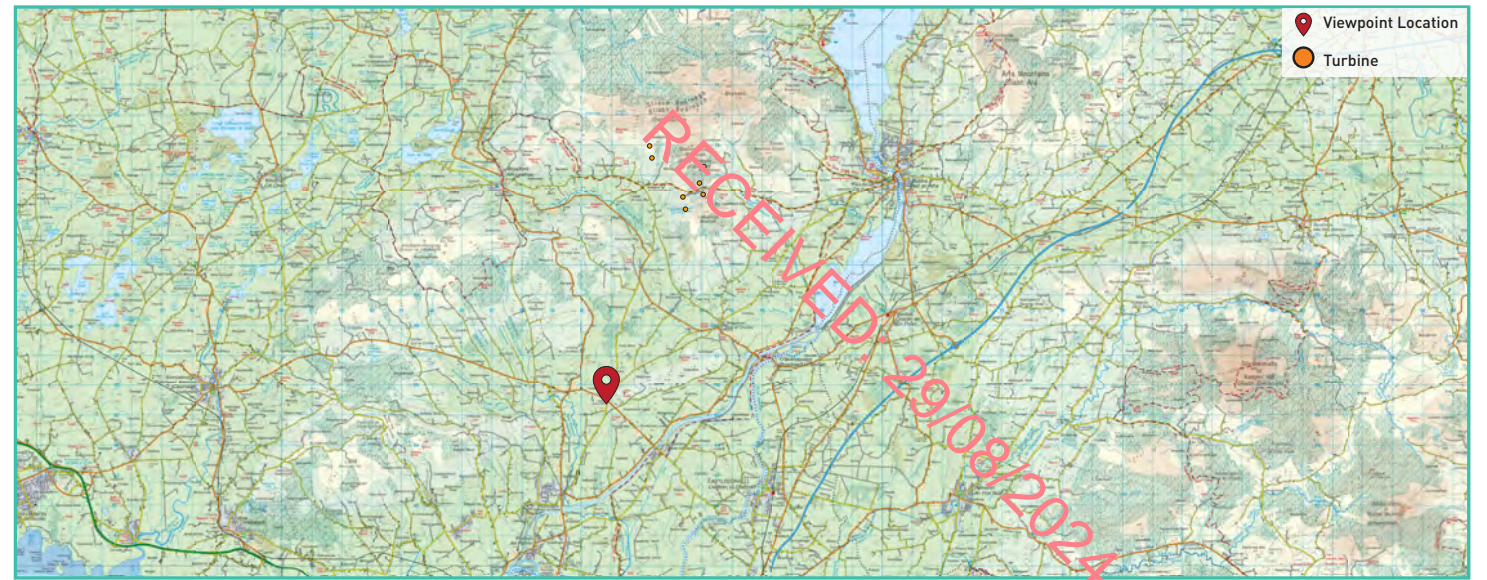
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PW-P

E 560799
N 665416

View from Harols Cross Roads at R471 Regional Road and
L3022-8.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



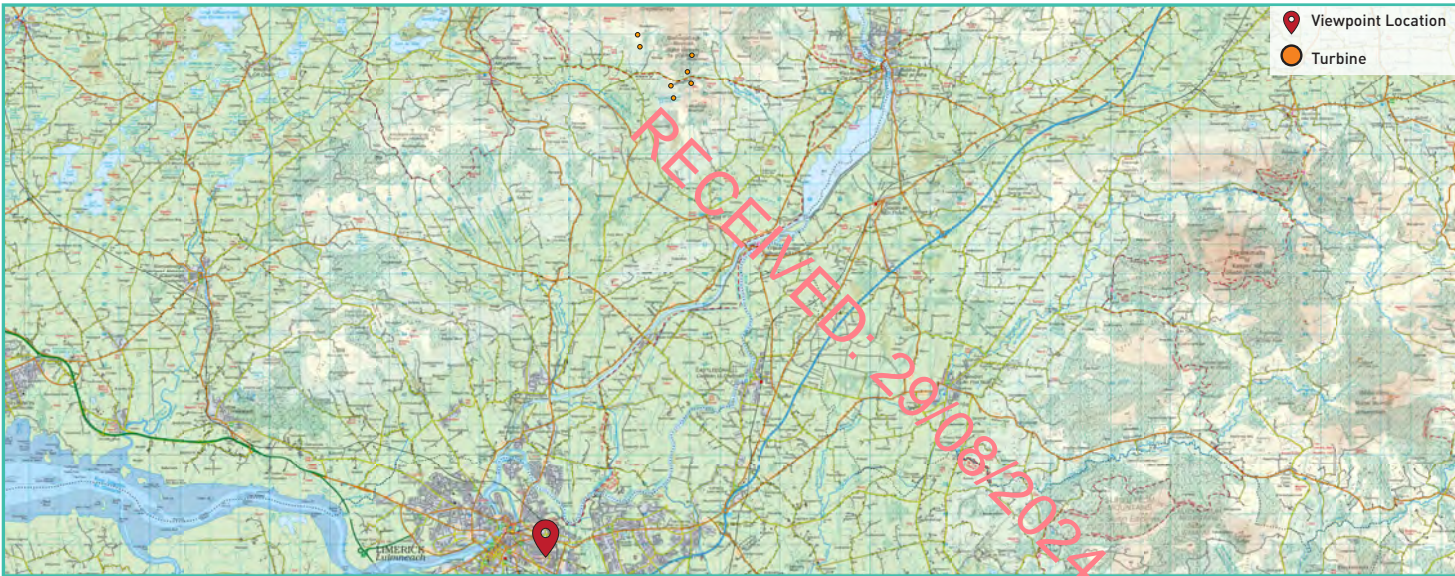


Proposed Lackareagh Wind Farm

PW-Q

E 559172
N 656623

View from Limerick City at St Bridgid's Church and cemetery, looking north-northeast.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°





Proposed Lackareagh Wind Farm

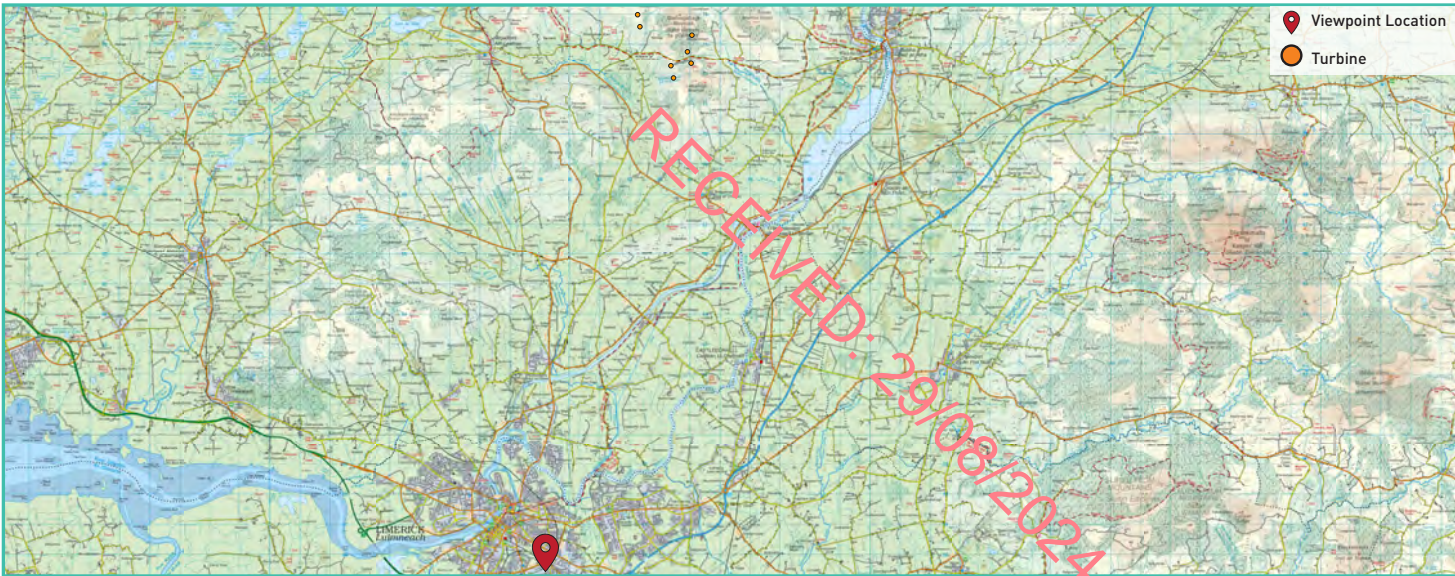
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Photowire - DRAFT photomontage visualisation

PW-R

E 559132
N 655407

View from Limerick City at O'Malley Park, looking north.



90° View Extent

Existing View at 120°



27° View Extent

Photowire at 90°



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