

Proposed Ardderroo Wind Farm, Co. Galway
Environmental Impact Assessment Report

Volume 2
Photomontages

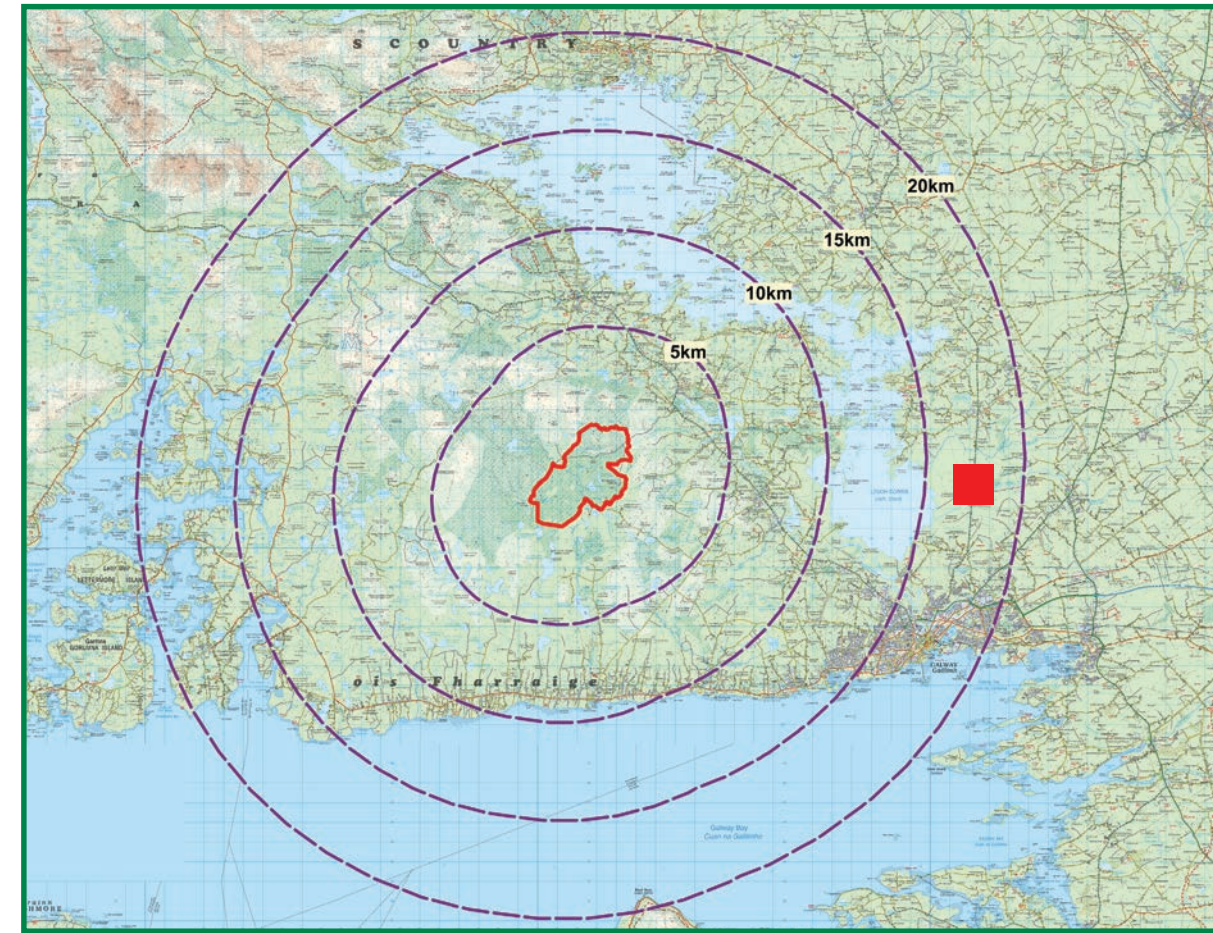


Planning & Environmental Consultants

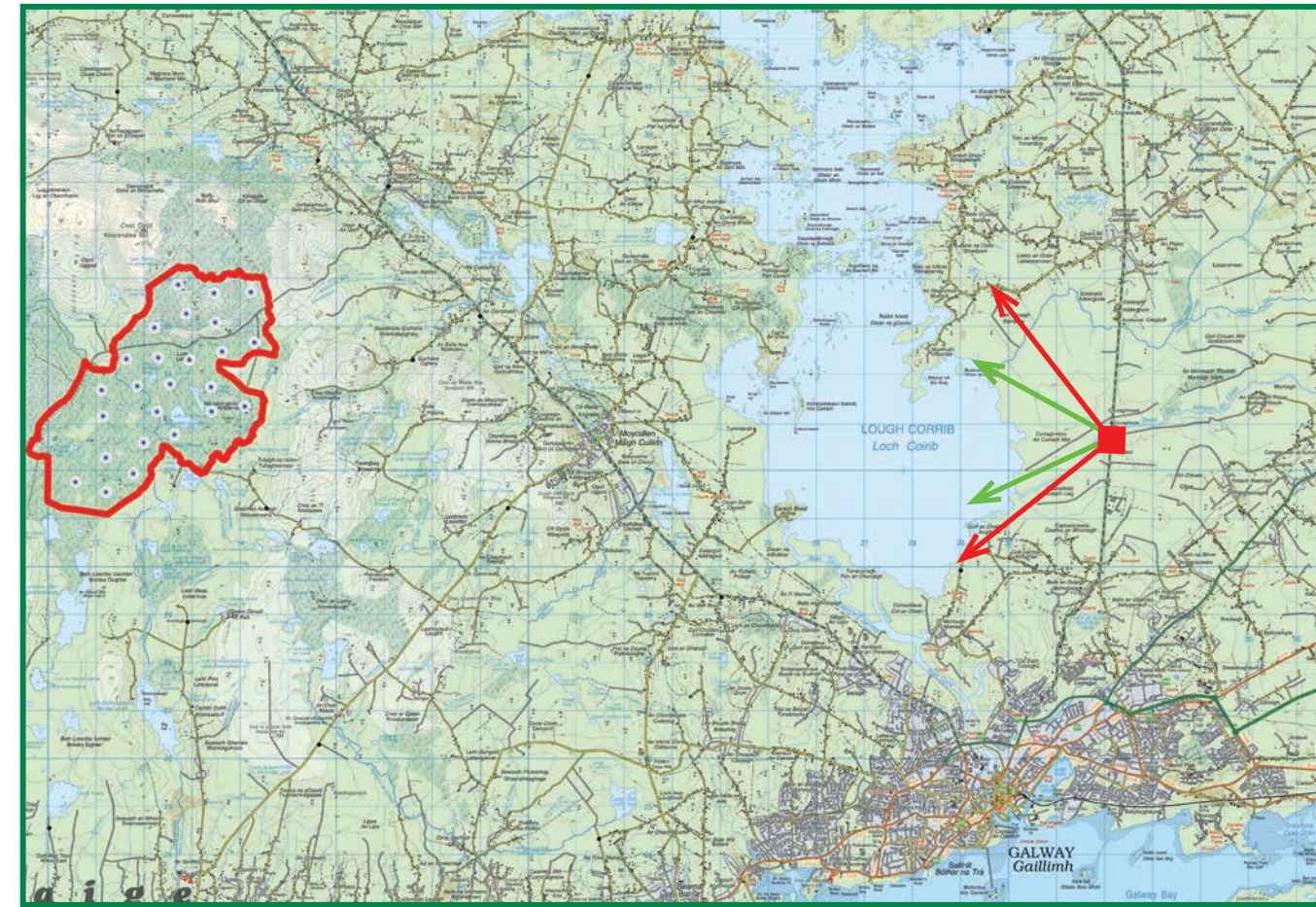
Photomontage 1

View Point: View from the local road in the townland of Sylaun, approximately 17.9 kilometres east of the nearest turbine.

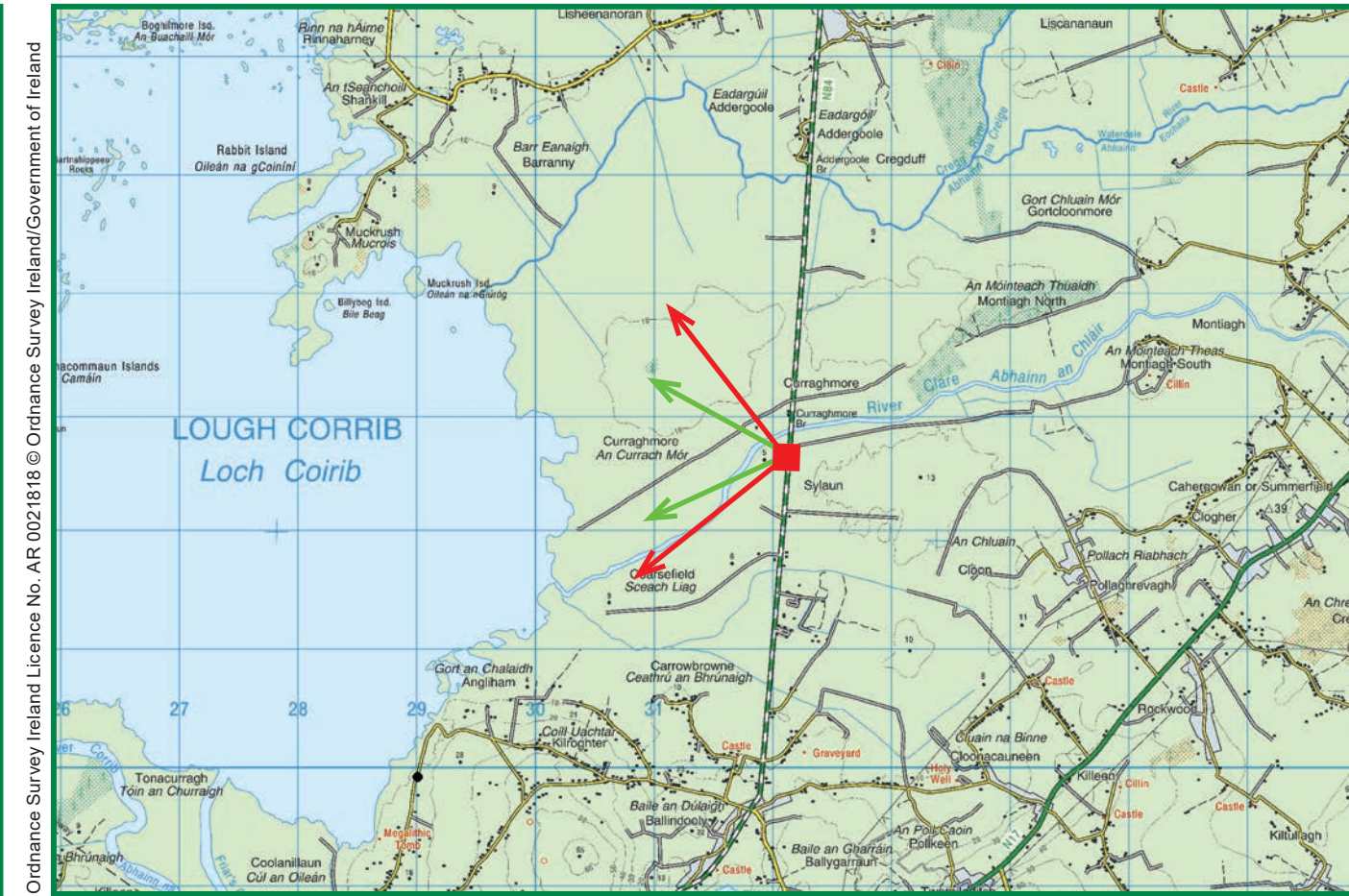
View point grid reference	132,148(E); 232,654(N)
Date of image taken	24.05.2018
Time of image taken	9:52am
View point elevation	10m
Angle of Views	90°
View Direction (Image Centre)	278°
Horizontal extent of proposed turbines	13°
Distance to nearest proposed turbine	17.9km (T11)
Number of proposed turbines visible	16/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 1 relative to 20km radius.



View point 1 relative to wind farm site (core boundary outlined in red).



Detail of view point 1 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

Prepared by

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90-Degree View Extent

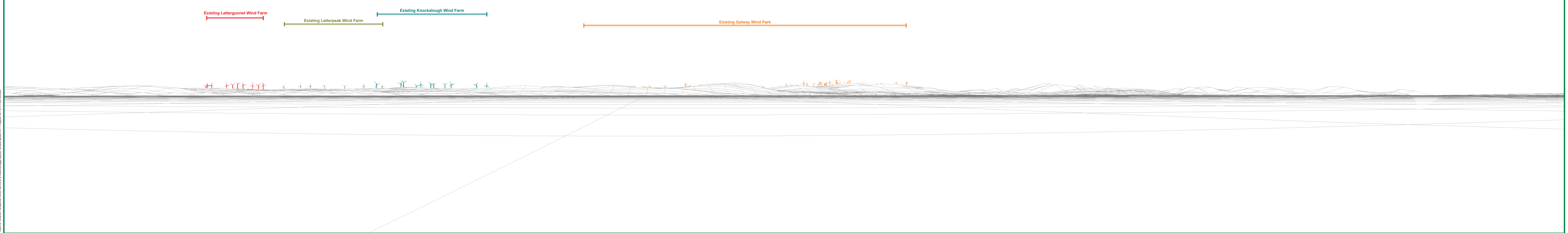
Key image at 90 degrees



53.5-Degree View Extent



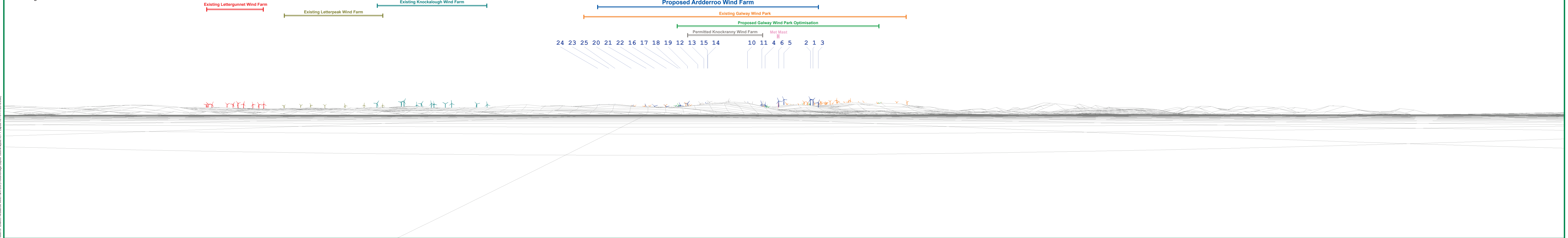
Matching wireframe



16081 E. Emery - Ardara Wind Farm EIS (Photomontage) Layout Turbine Layout (V.1 - Turbine V.1 - 01-11-2018.rvt)



Matching wireframe



160615 - Ardderroo Wind Farm ES (Photomontage Layout T2) - T Layout V8 - 21-11-2018 (x4)

0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



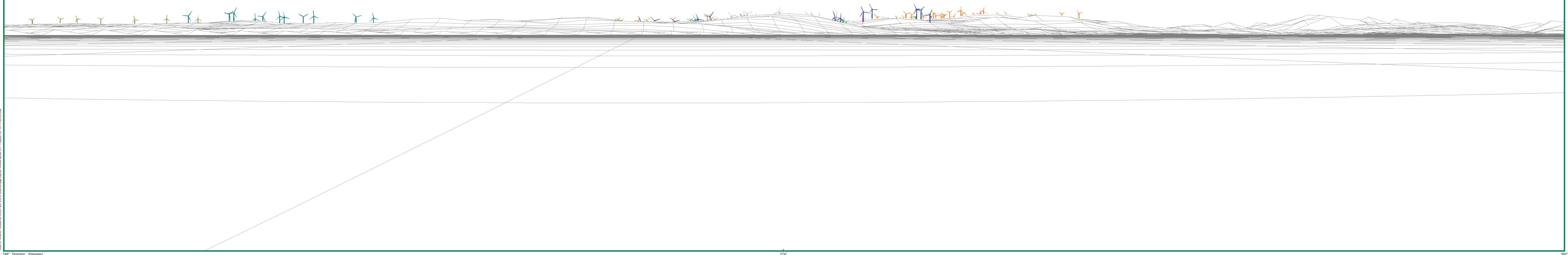
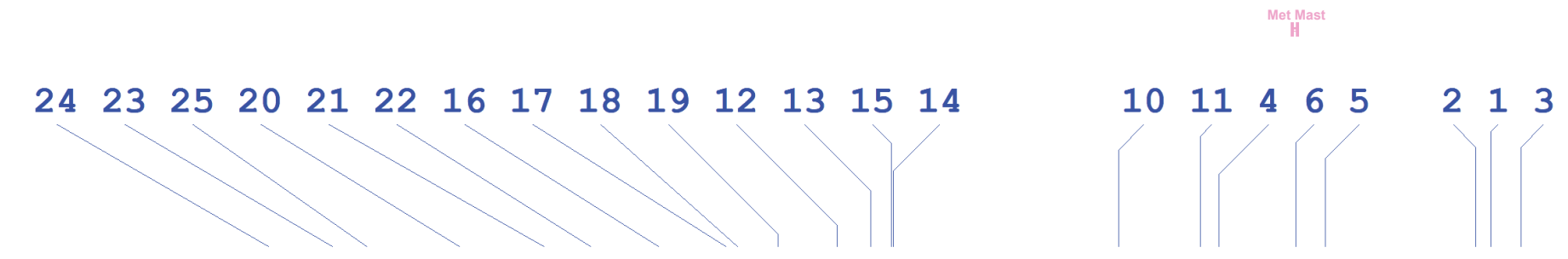
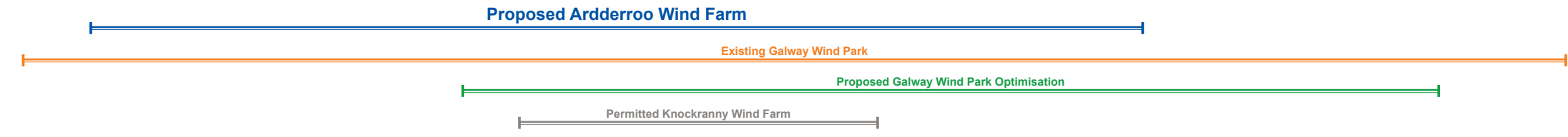
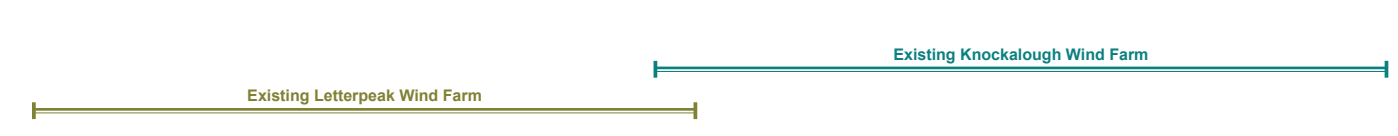
160815 - Eneco - Ardara Wind Farm EIS Photomontage Layout Tables Input 03 - 1 Layout V16 - 01-11-2018 (400)

248° Direction (Degrees)

274°

307°

Matching wireframe



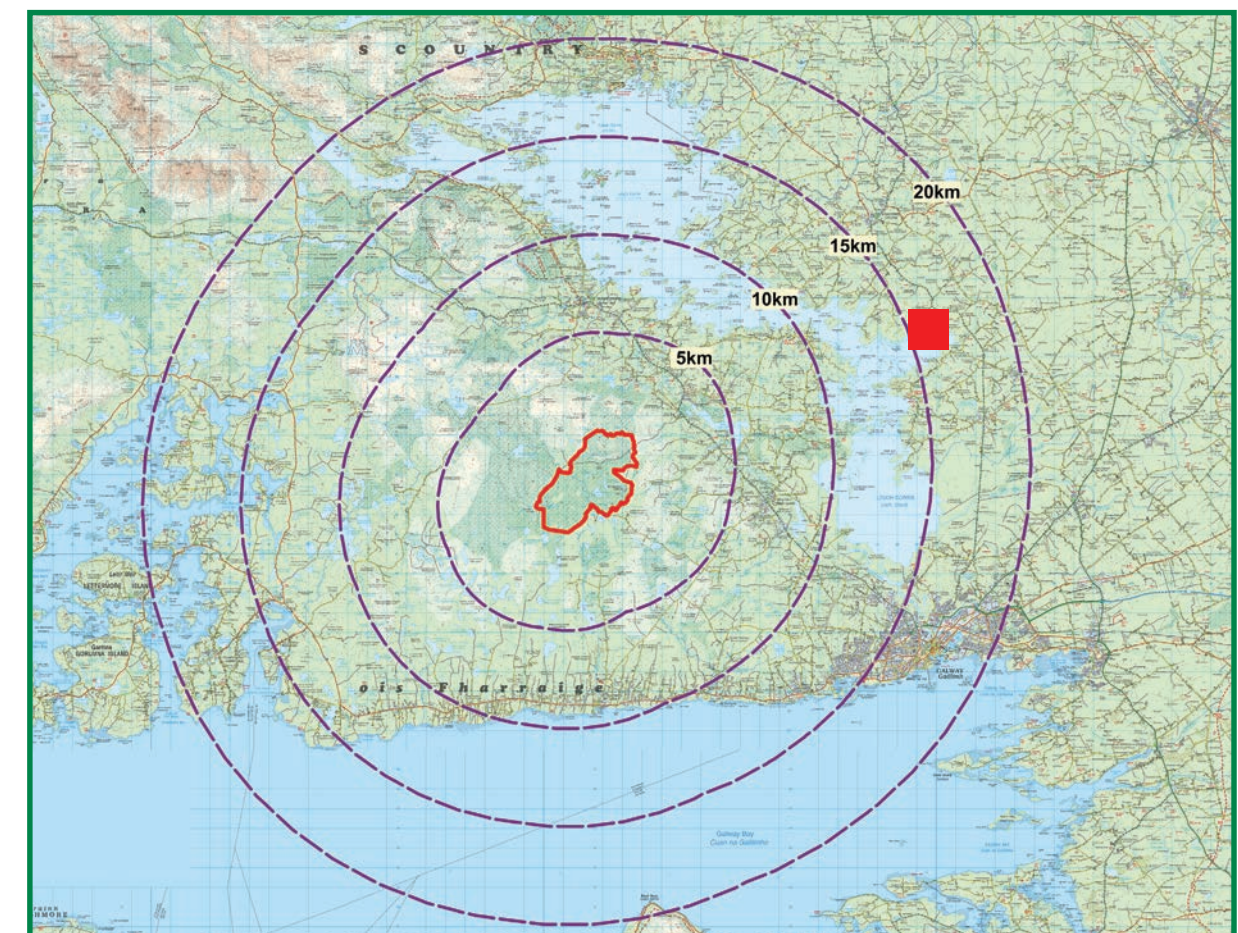
View Point 2

Luimnagh

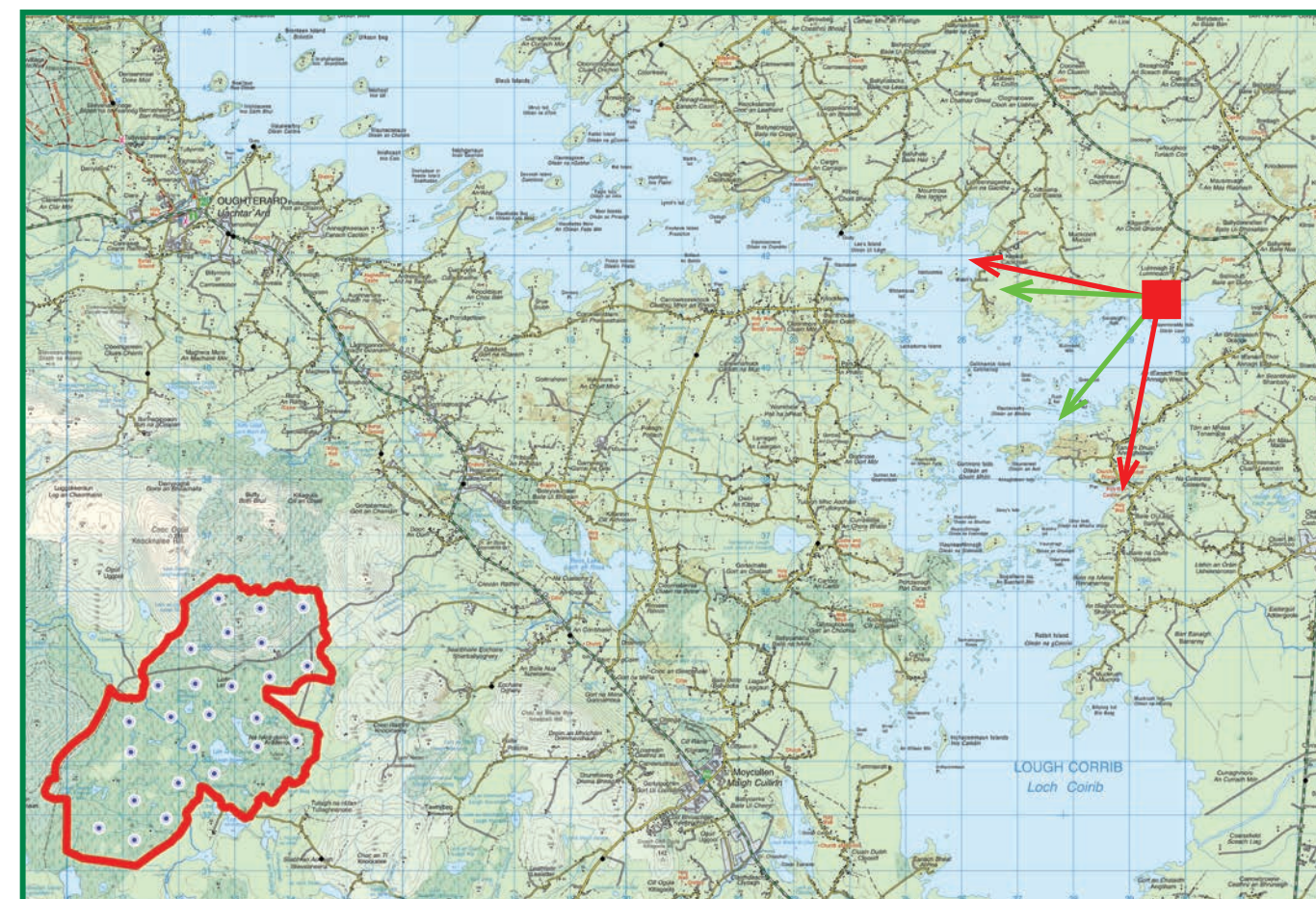
Photomontage 2

View Point: View from the slipway in the townland of Luimnagh, on the eastern shore of Lough Corrib, approximately 16.3 kilometres northeast of the nearest turbine.

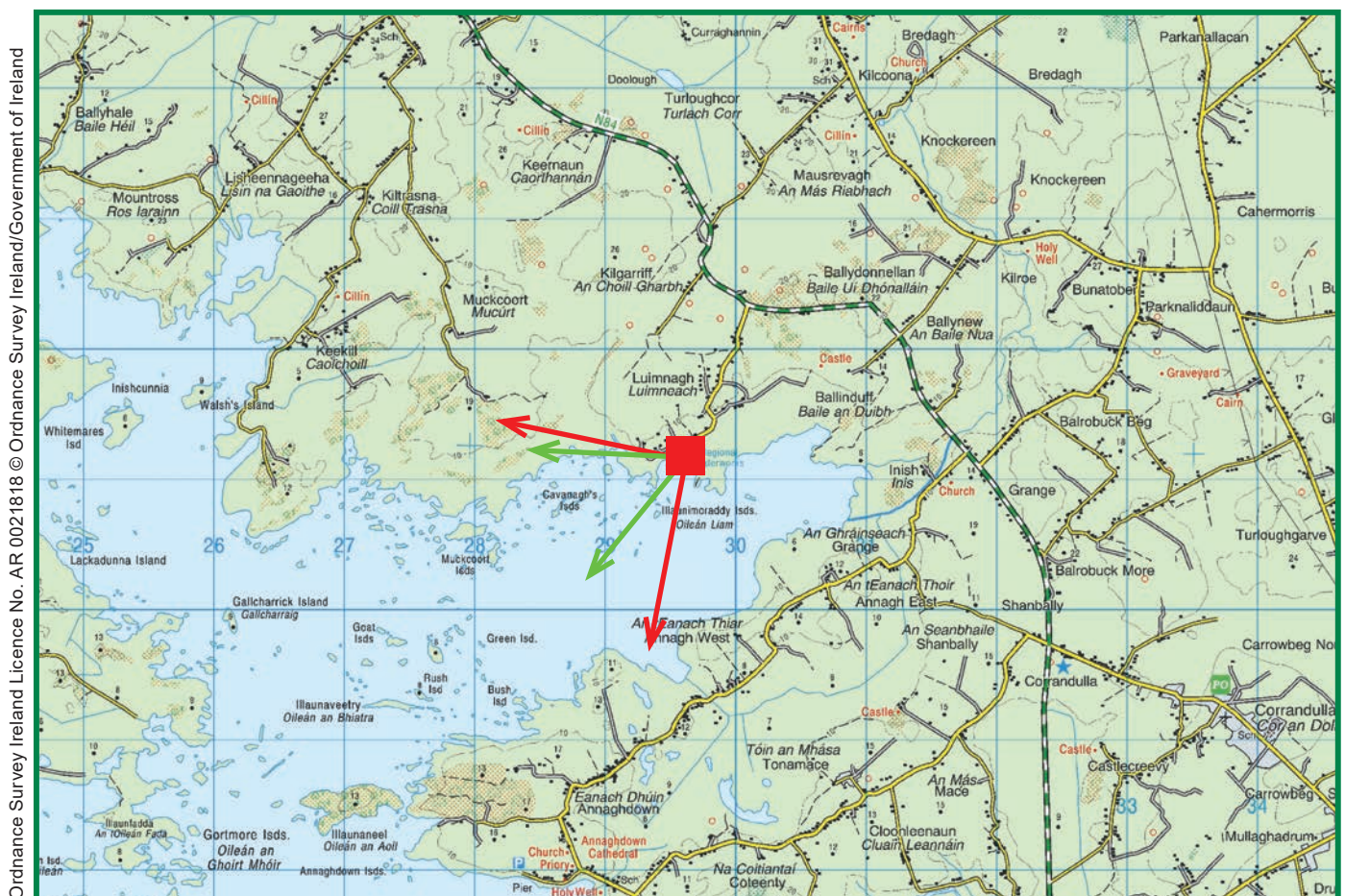
View point grid reference	129,601(E); 241,221(N)
Date of image taken	24.5.2018
Time of image taken	9:05pm
View point elevation	10m
Angle of View	90°
View Direction (Image Centre)	238°
Horizontal extent of proposed turbines	10°
Distance to nearest proposed turbine	16.3km (T4)
Number of proposed turbines visible	25/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 2 relative to 20km radius.



View point 2 relative to wind farm site (core boundary outlined in red).



Detail of view point 2 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

Key image at 90 degrees

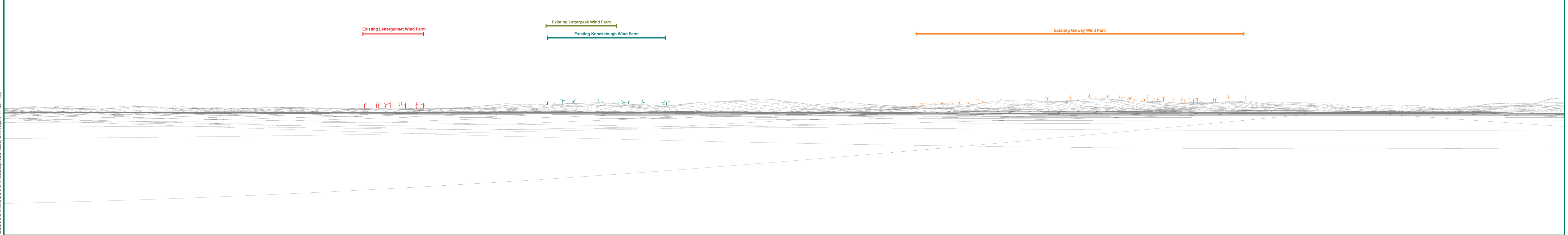


53.5-Degree View Extent

180815E - Emerald - Ardara - Wind Farm EIS Photomontage Layout - Turbine Point 02 - Turbine Point 02 - 01-11-2018 (180815E)

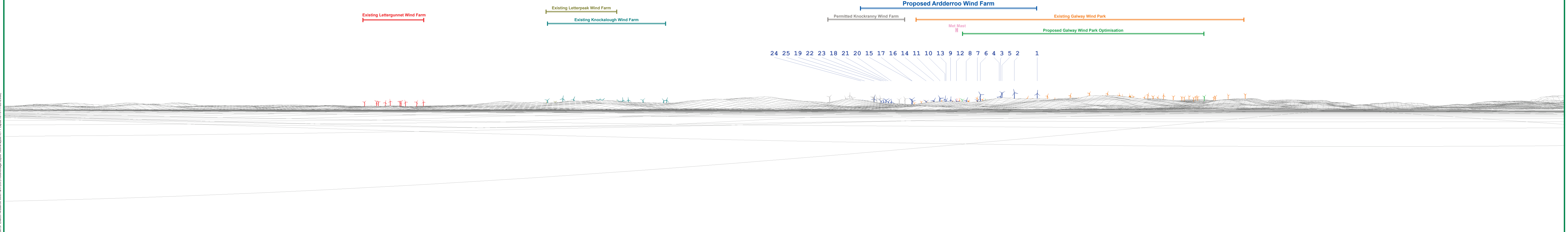


Matching wireframe





Matching wireframe

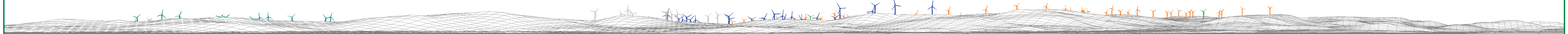


160915 - Eirias - Ardderroo Wind Farm EIS (Photomontage Layout Layout V5 - T Layout V8 - 01-11-2018.indd)

Proposed Photomontage at 53.5 degrees with Cumulative



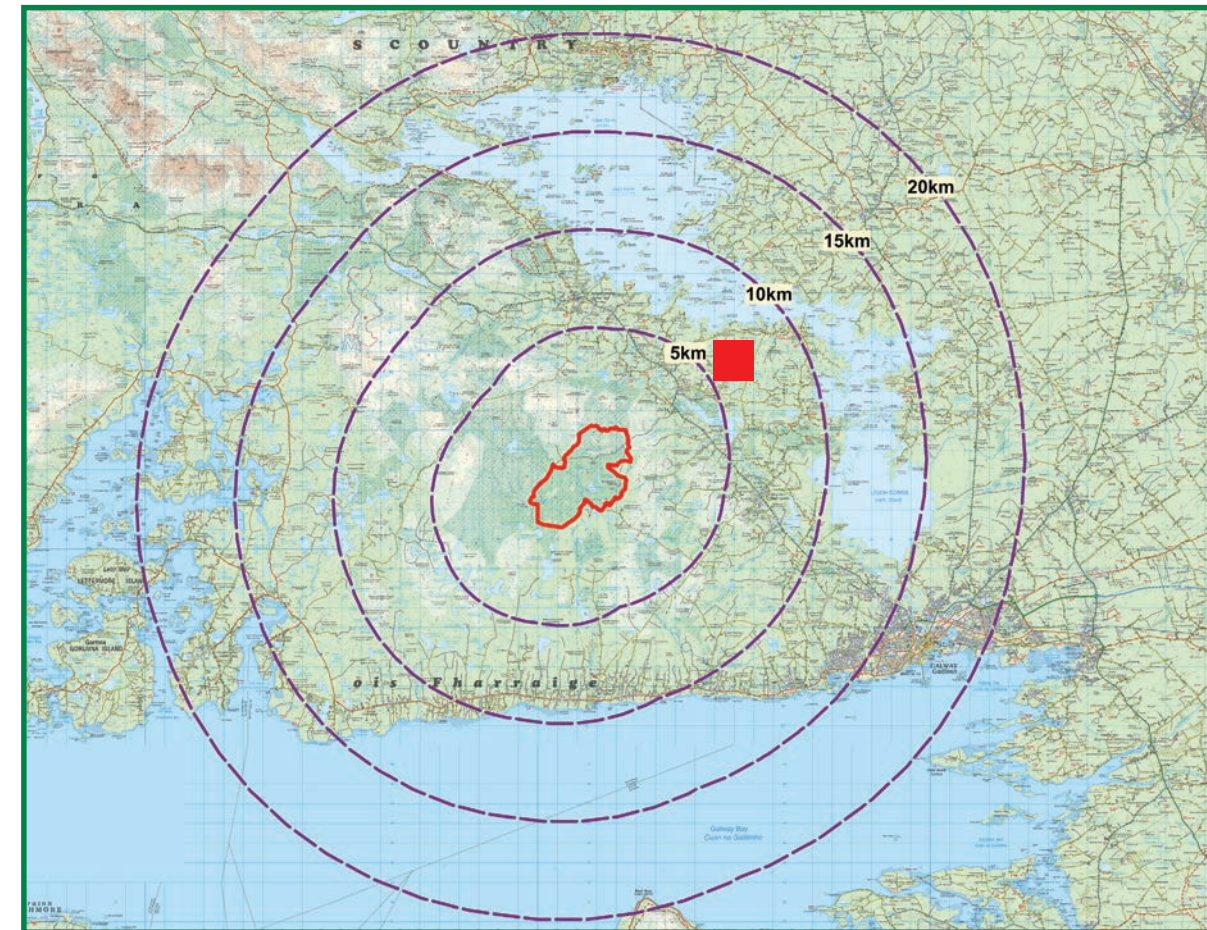
Matching wireframe



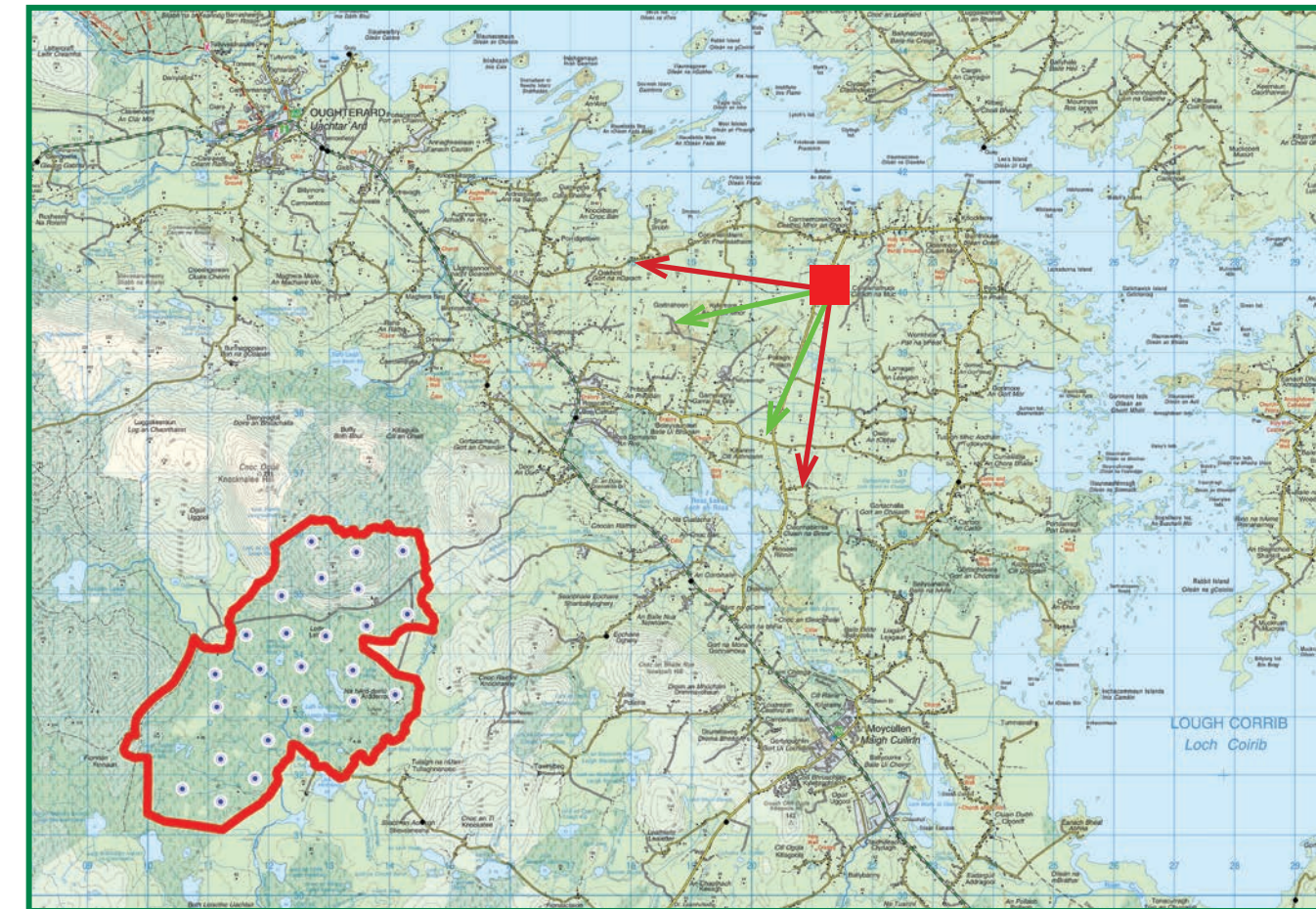
Photomontage 3

View Point: View from the local road in the townland of Carrowmoreknock, approximately 8.3 kilometres northeast of the nearest turbine.

View point grid reference	121,258(E); 240,258(N)
Date of image taken	28.06.2018
Time of image taken	9:56pm
View point elevation	11m
Angle of View	90°
View Direction (Image Centre)	234°
Horizontal extent of proposed turbines	16°
Distance to nearest proposed turbine	8.3km (T4)
Number of proposed turbines visible	14/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 3 relative to 20km radius.



View point 3 relative to wind farm site (core boundary outlined in red).



Detail of view point 3 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

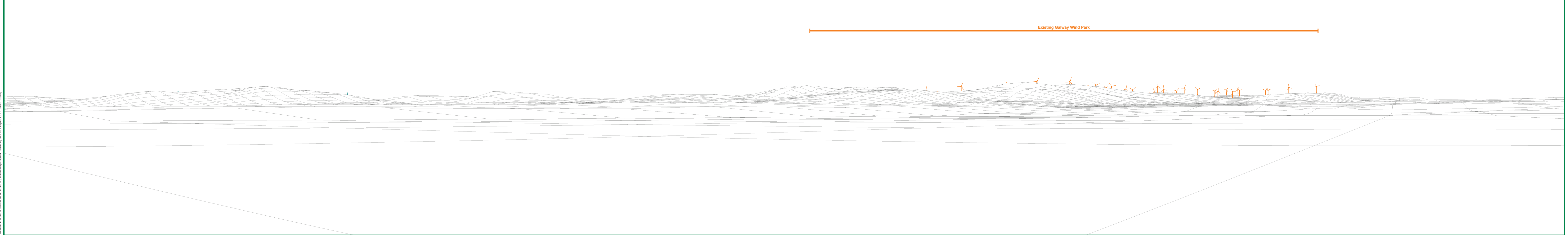
Key image at 90 degrees



53.5-Degree View Extent



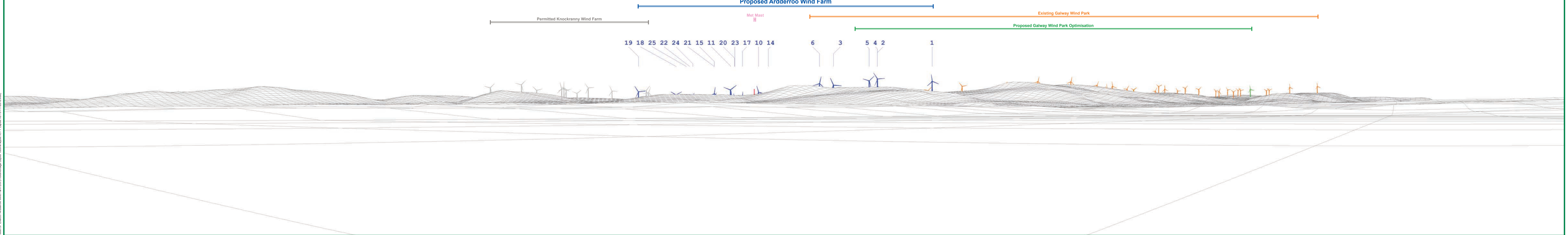
Matching wireframe



180815 - Enniscorthy Wind Farm ES (Photomontage) Layout Turbine Layout (V.1 - Turbine V8 - 01-11-2018.rvt)



Matching wireframe



160615 - Ardderroo Wind Farm ES (Photomontage Layout) V5 - T Layout V8 - 01-11-2018 (x4)

0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



160815 - Eneco - Ardennes Wind Farm EIS Photomontage Layout Tables Input 03 - 1 Layout V16 - 01-11-2018 (400)

206° Direction (Degrees)

234°

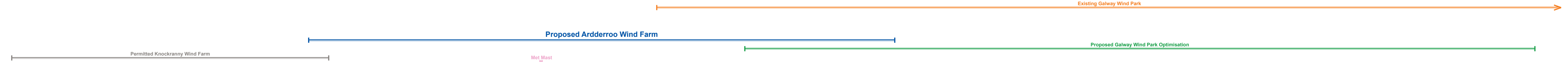
260°

0° Included Angle (Degrees)

26.5°

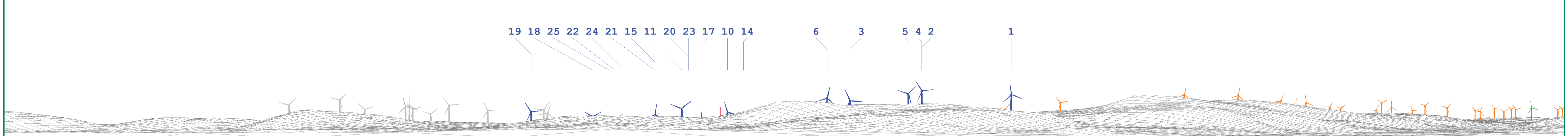
53.4°

Matching wireframe



19 18 25 22 24 21 15 11 20 23 17 10 14 6 3 5 4 2 1

Met Mast



100815 - Eirias - Ardderroo Wind Farm EIS (Photomontage Layout Turbine layout V5 - T Layout 18 - on 11-2018).indd

206° Direction (Degrees)

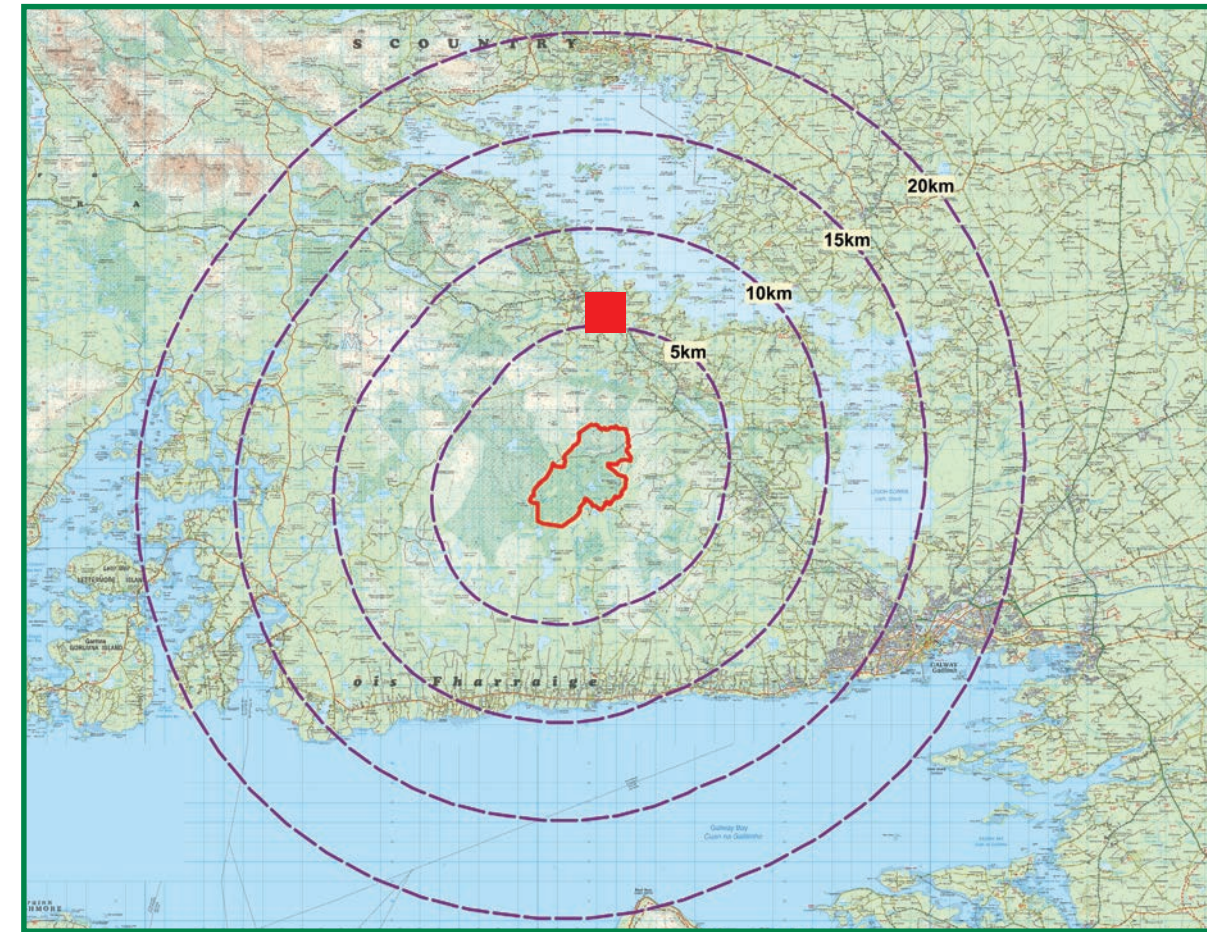
234°

260°

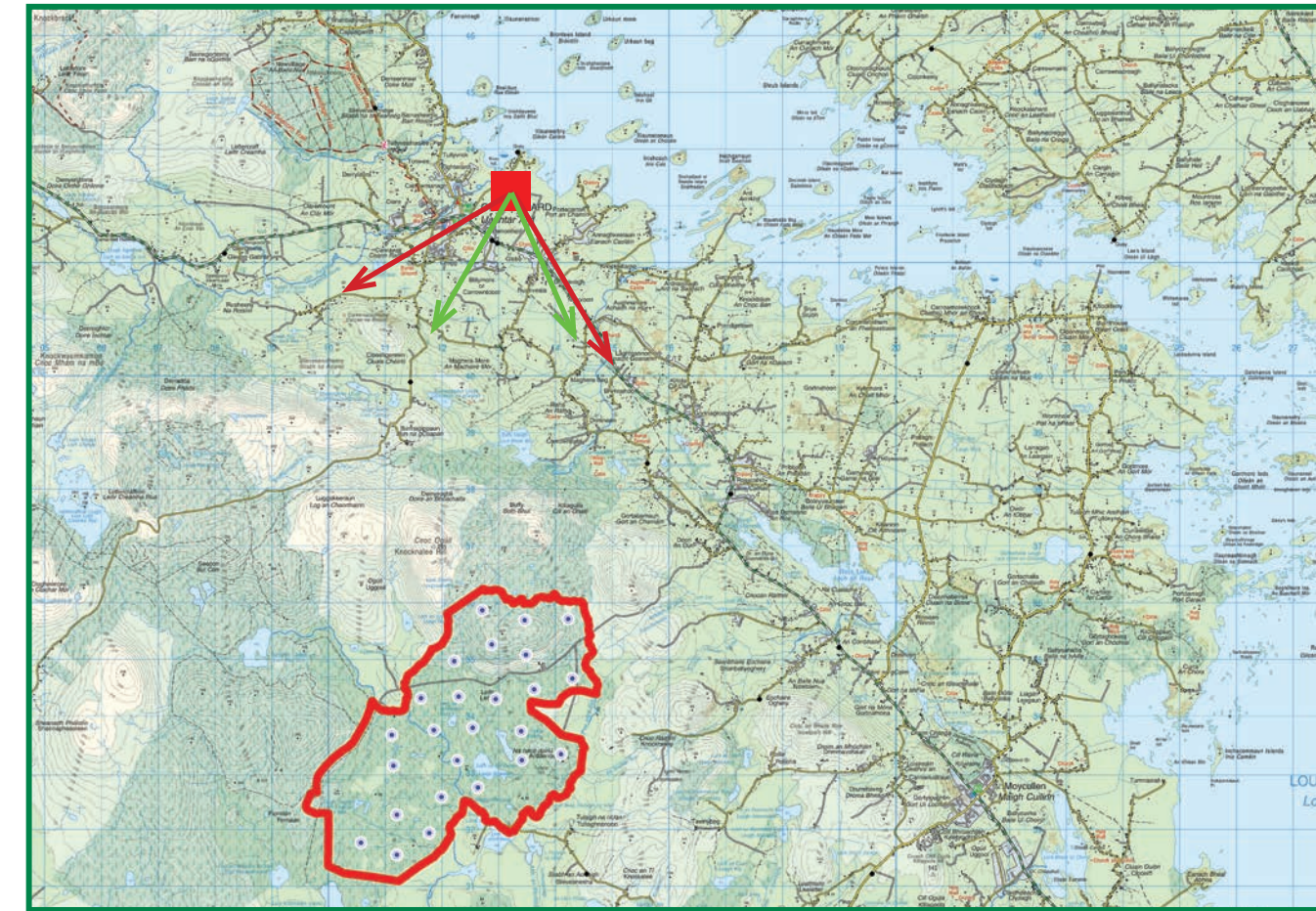
Photomontage 4

View Point: View from the quay in the townland of Lemonfield, on the western shore of Lough Corrib, approximately 8.1 kilometres north of the nearest turbine.

View point grid reference	113,332(E); 243,981(N)
Date of image taken	29.6.2018
Time of image taken	1:07pm
View point elevation	5m
Angle of View	90°
View Direction (Image Centre)	193°
Horizontal extent of proposed turbines	18°
Distance to nearest proposed turbine	8.1km (T1)
Number of proposed turbines visible	5/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 4 relative to 20km radius.



View point 4 relative to wind farm site (core boundary outlined in red).



Detail of view point 4 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

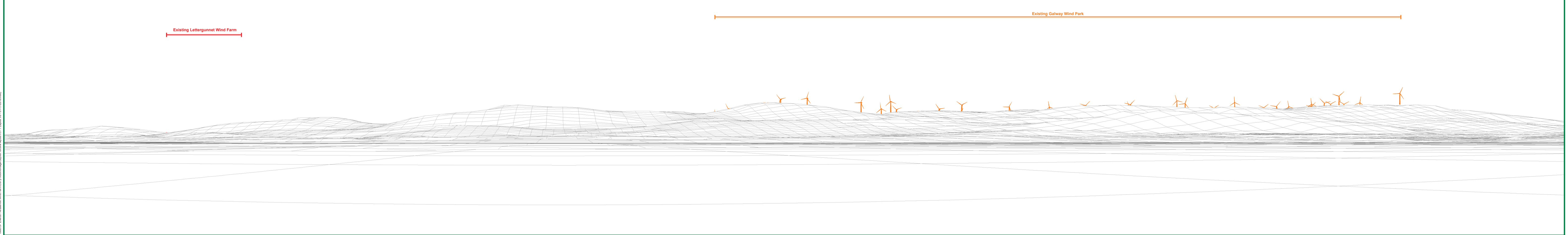
Key image at 90 degrees



53.5-Degree View Extent



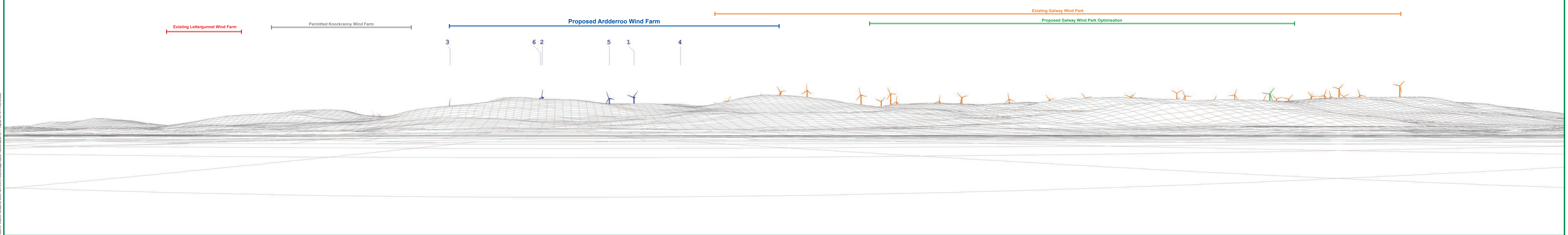
Matching wireframe



16081 E. Emery - Ardaraire Wind Farm ES (Photomontage Layout, Turbine Layout V6 - Turbine V6 - 01-11-2018.rvt)



Matching wireframe



0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



160815 - Enviro - Archiburo Wind Farm EIS Photomontage Layout - T1 Layout V16 - 01-11-2018 (x30)

154° Direction (Degrees)

183°

209°

0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Existing Lettergunnet Wind Farm

Permitted Knockranny Wind Farm

Proposed Ardderroo Wind Farm

Existing Galway Wind Park

Proposed Galway Wind Park Optimisation

3

6 2

5

1

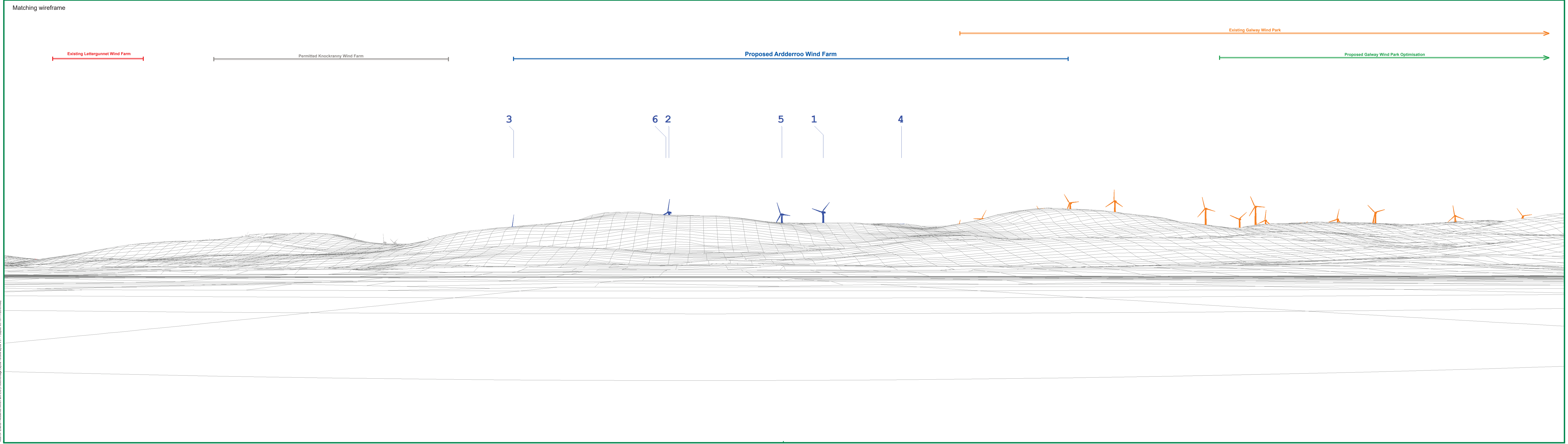
4

00815 - Eirias - Ardderroo Wind Farm EIS (Photomontage Layout Turbine layout v5 - T Layout 18 - 01-11-2018.indd)

154° Direction (Degrees)

183°

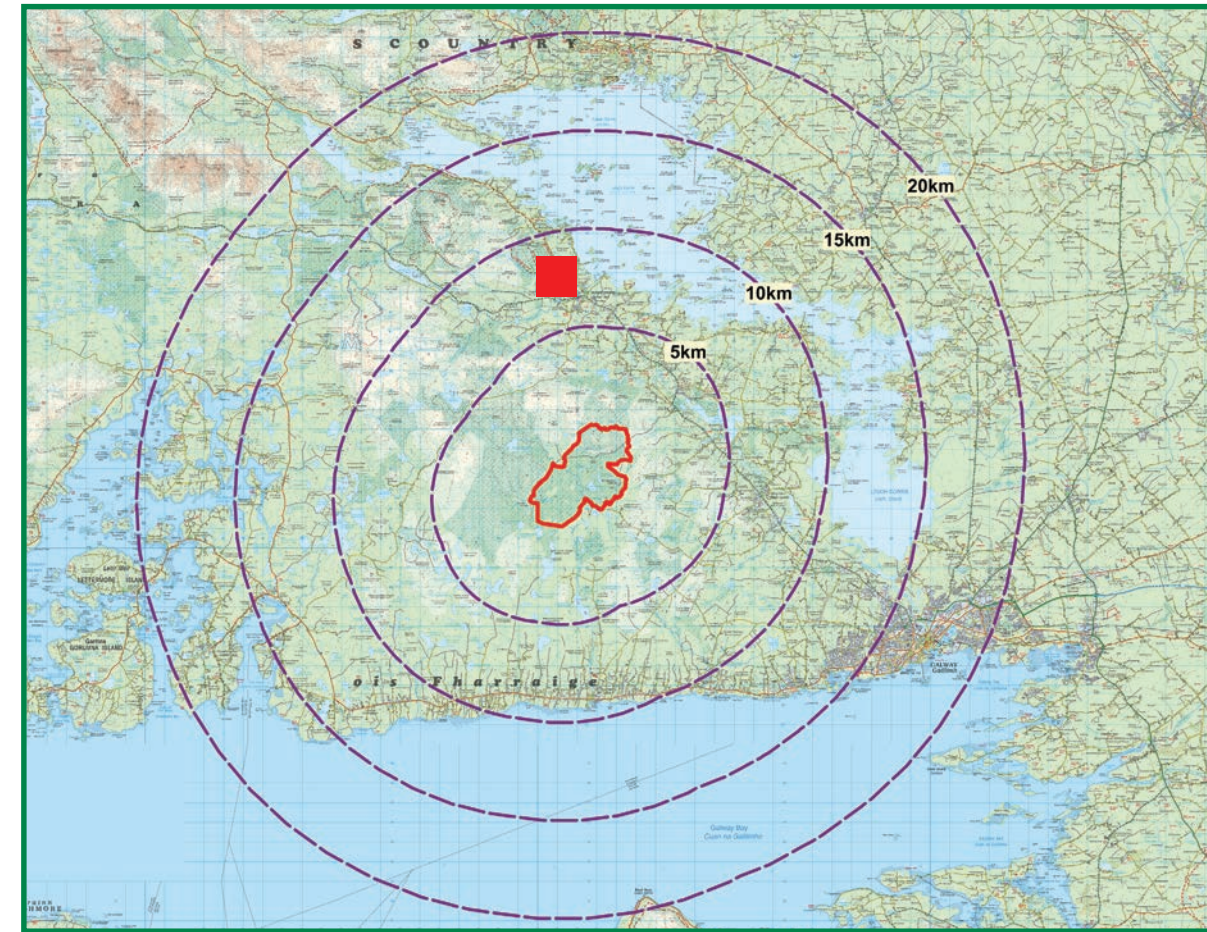
205°



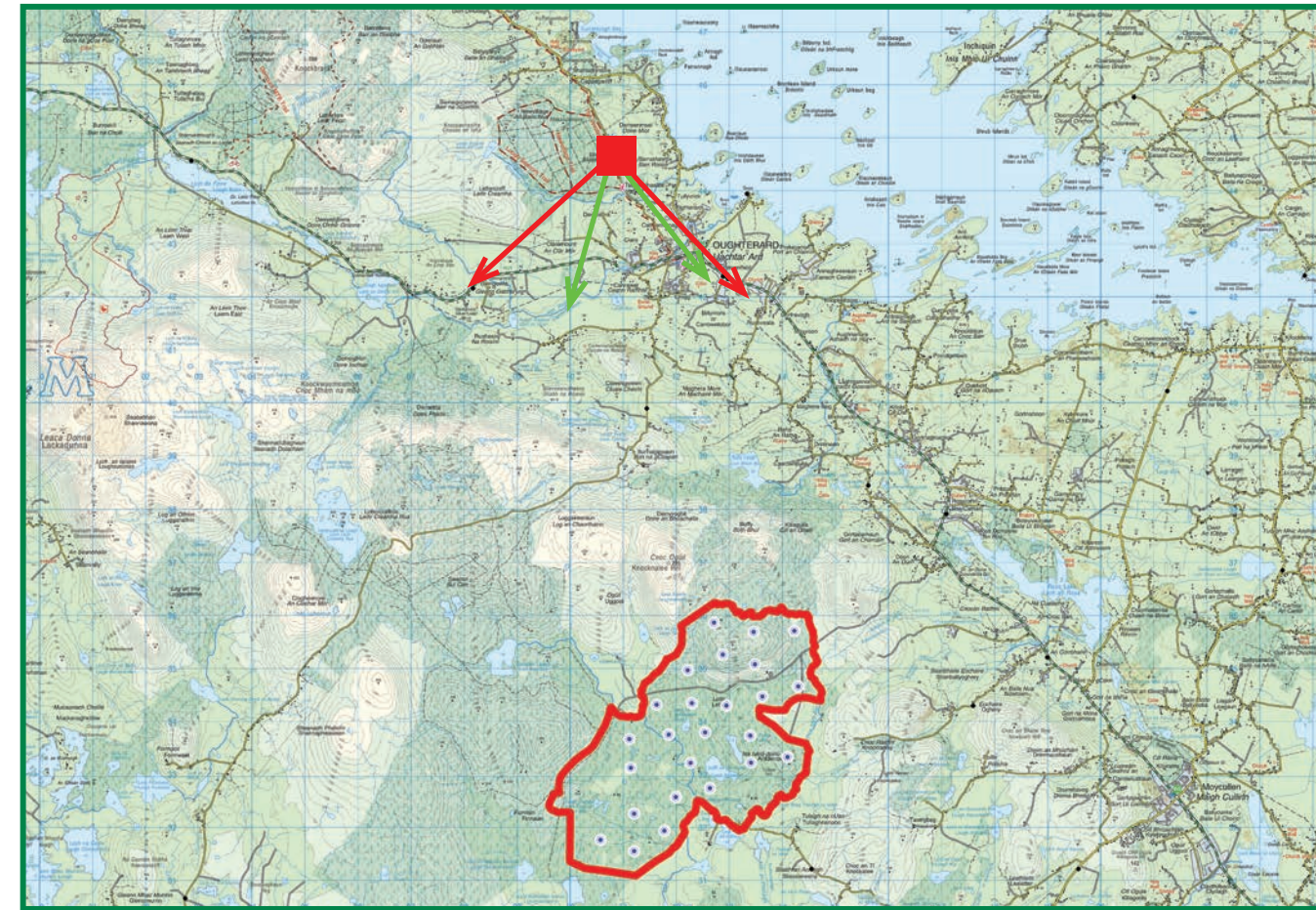
Photomontage 5

View Point: View from the local road (and Western Way route) in the townland of Dereenmeel, approximately 9.05 kilometres northwest of the nearest turbine.

View point grid reference	110,817(E); 244,759(N)
Date of image taken	29.06.2018
Time of image taken	2:10pm
View point elevation	54m
Angle of View	90°
View Direction (Image Centre)	183°
Horizontal extent of proposed turbines	20°
Distance to nearest proposed turbine	9.05km (T1)
Number of proposed turbines visible	4/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 5 relative to 20km radius.



View point 5 relative to wind farm site (core boundary outlined in red).



Detail of view point 5 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

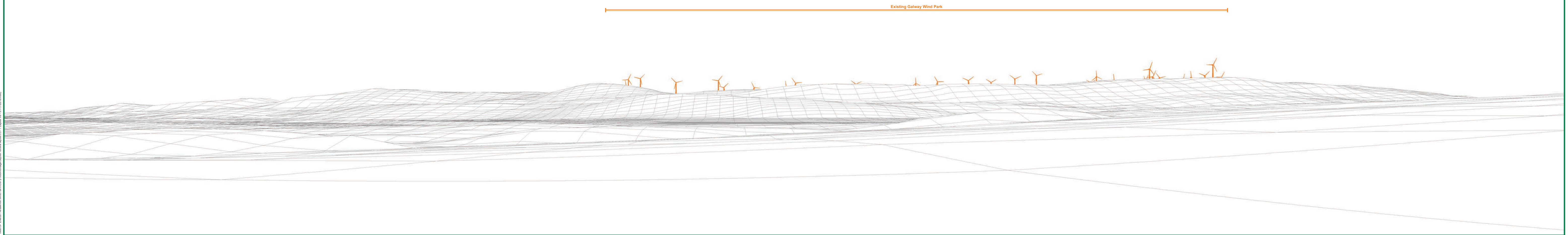
Key image at 90 degrees



53.5-Degree View Extent

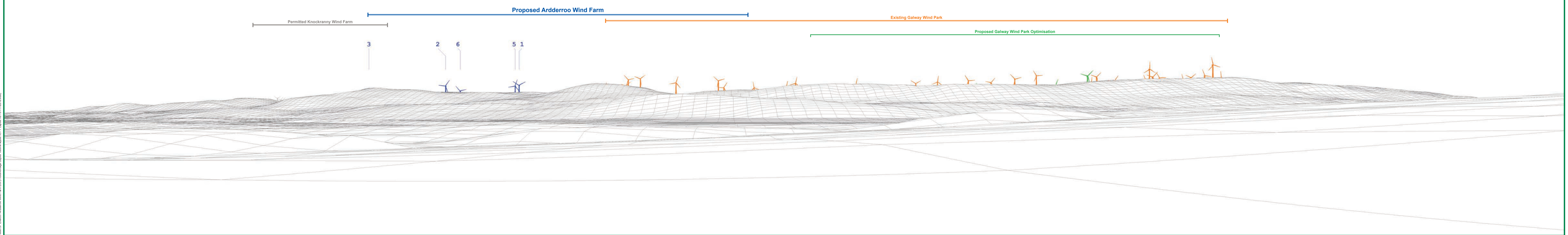


Matching wireframe





Matching wireframe



0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



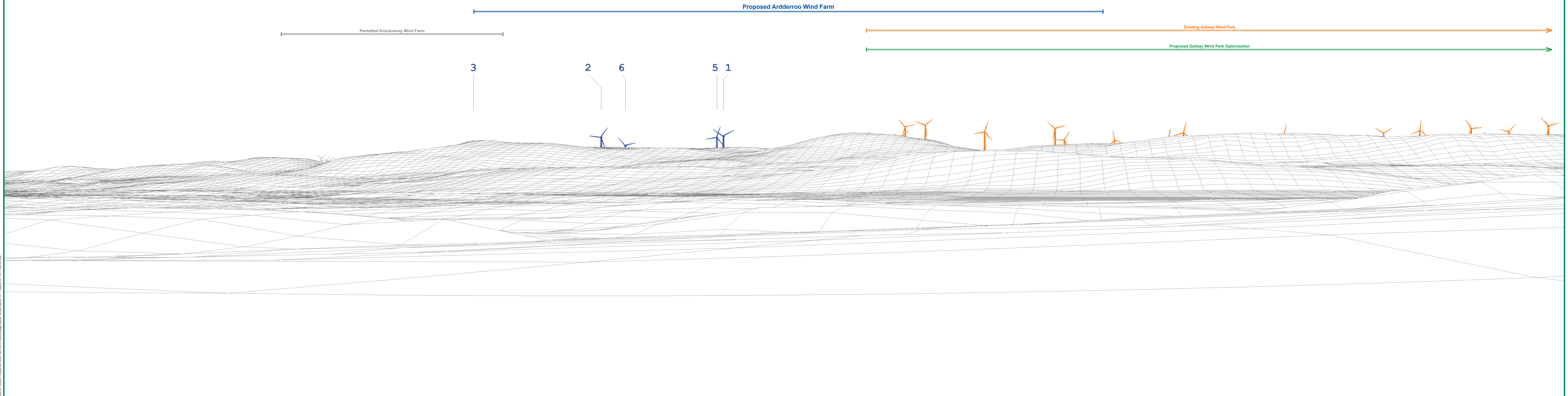
160815 - Eneco - Ardara Wind Farm EIS Photomontage Layout - T_Layer_V06_011_2018.mxd

143° Direction (Degrees)

170°

197°

Matching wireframe

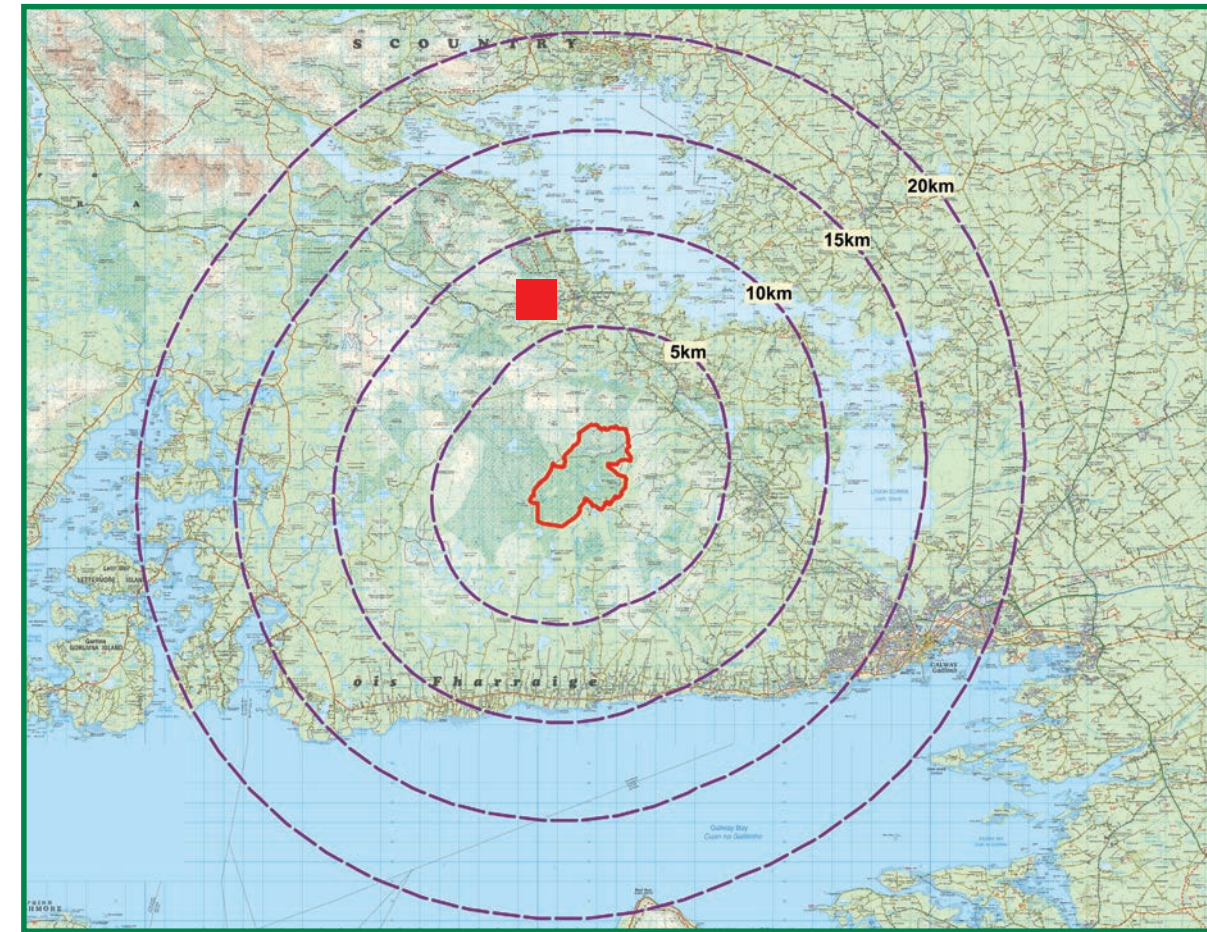


00815 - Energy - Ardderroo Wind Farm EIS (Photomontage Layout Turbine layout v5 - T Layout 18 - 01-11-2018.indd)

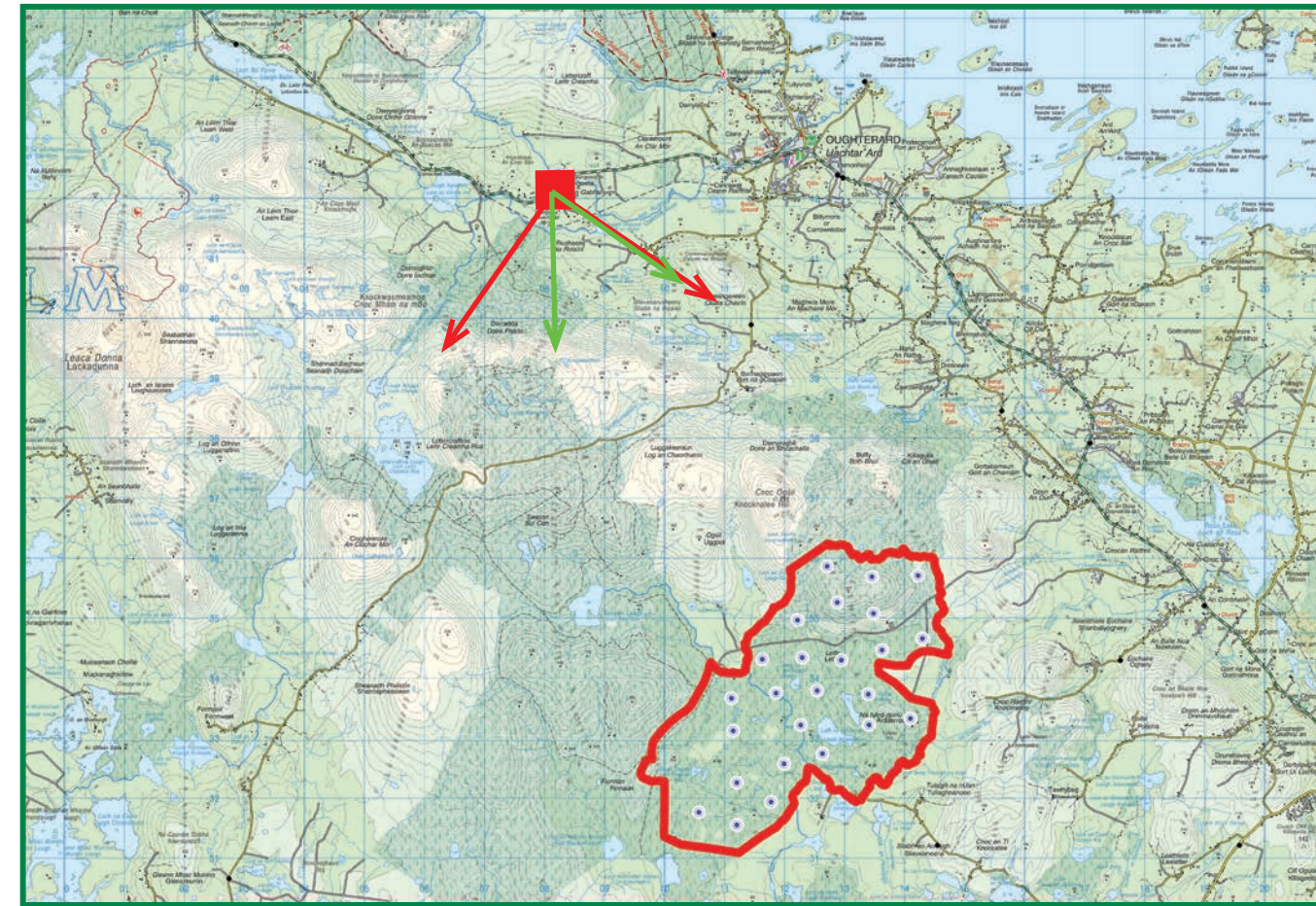
Photomontage 6

View Point: View from the N59 National Secondary Route in the townland of Glengowla West, approximately 7.75 kilometres northwest of the nearest turbine.

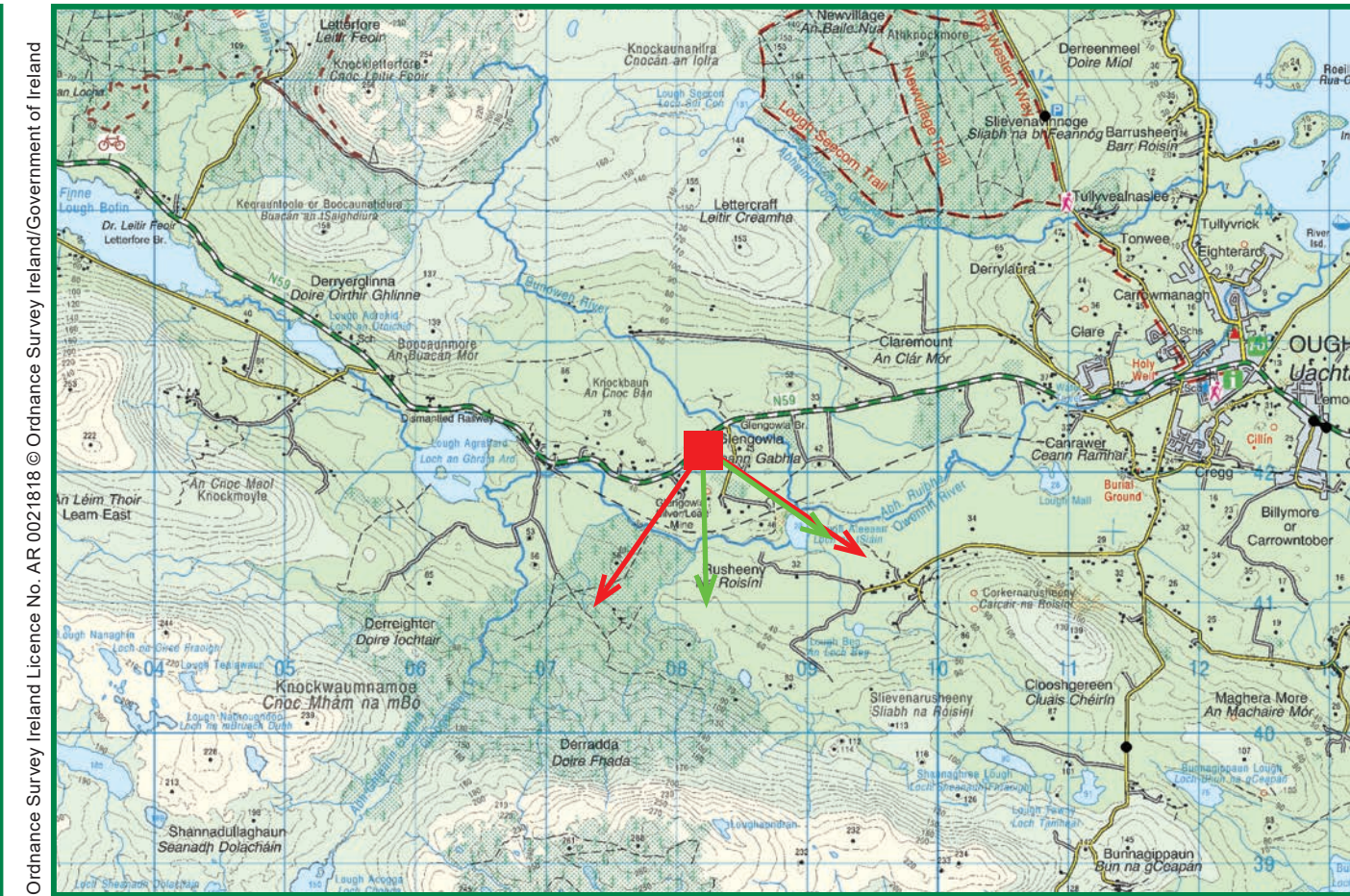
View point grid reference	108,218(E); 242,255(N)
Date of image taken	29.6.2018
Time of image taken	3.15pm
View point elevation	40m
Angle of View	90°
View Direction (Image Centre)	171°
Horizontal extent of proposed turbines	30°
Distance to nearest proposed turbine	7.75km (T1)
Number of proposed turbines visible	2/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 6 relative to 20km radius.



View point 6 relative to wind farm site (core boundary outlined in red).



Detail of view point 6 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

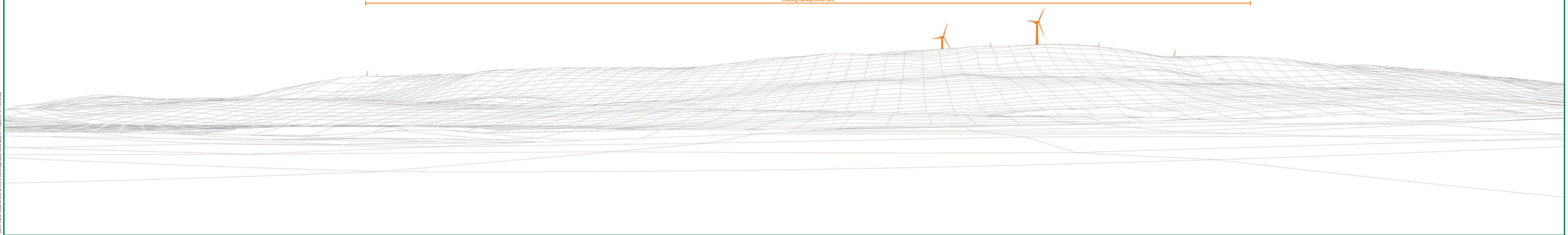
Key image at 90 degrees



53.5-Degree View Extent



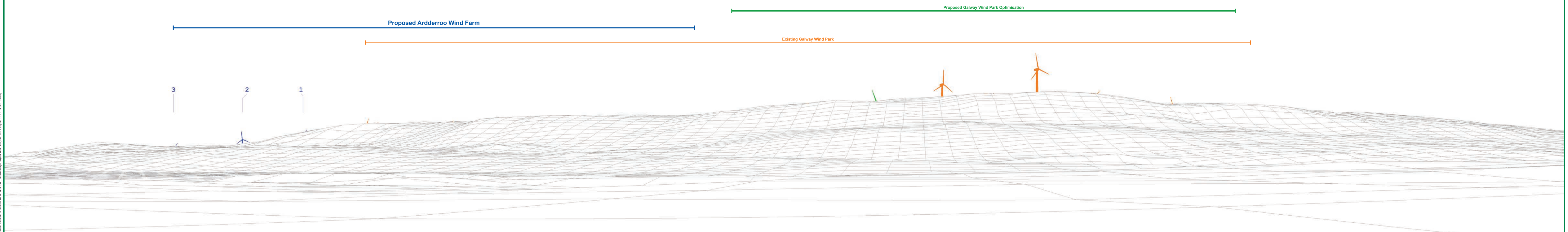
Matching wireframe



16081 E. Emery - Audience Wind Farm ES (Photomontage Layout - Turbine Layout V6 - 11-2018.rvt)



Matching wireframe



160615 - Ardderroo Wind Farm EIS Photomontage Layout Template (V5 - T Layout) (8 - 21-11-2018.indd)

0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



126° Direction (Degrees)

152°

178°

160815 - Eirac - Ardara Wind Farm EIS Photomontage Layout Tables Input 03 - T Layout V01 - 01-11-2018 (x40)

0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Proposed Ardderroo Wind Farm

Proposed Galway Wind Park Optimisation

Existing Galway Wind Park

3

2

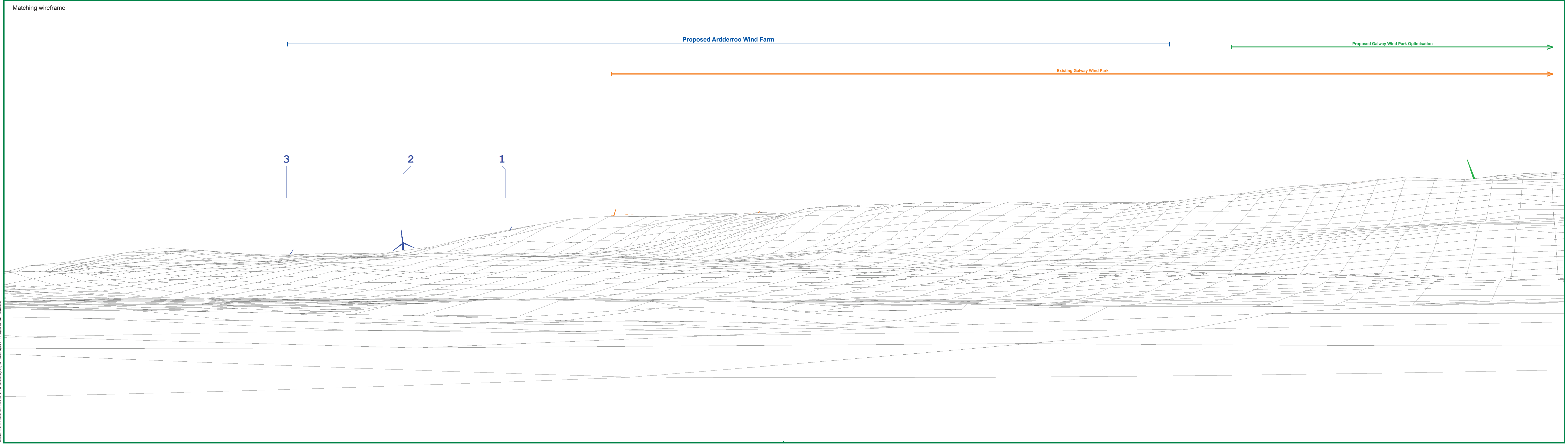
1

00815 - Eirias - Ardderroo Wind Farm EIS (Photomontage Layout Turbine layout.vst - T Layout 08 - 01-11-2016.indd)

126° Direction (Degrees)

152°

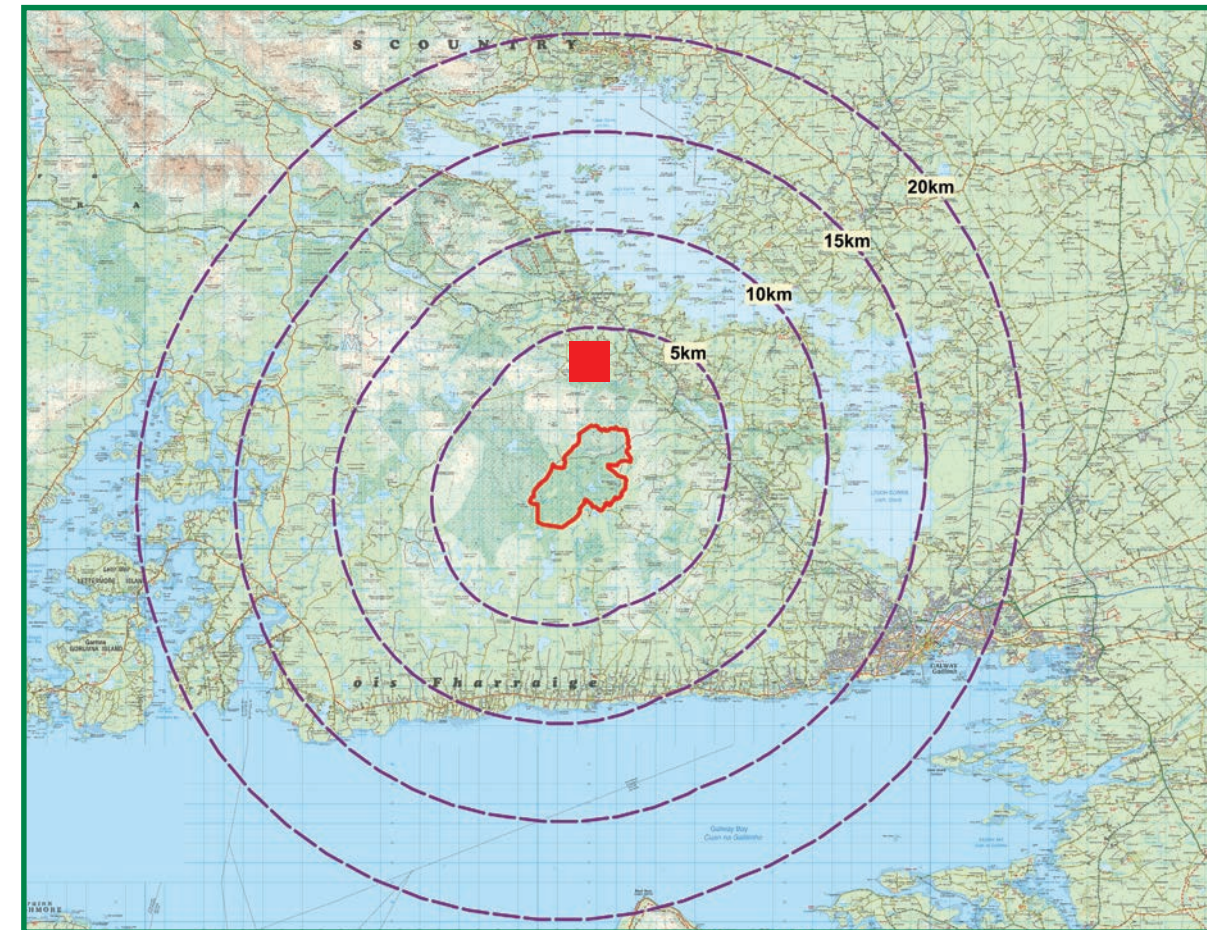
178°



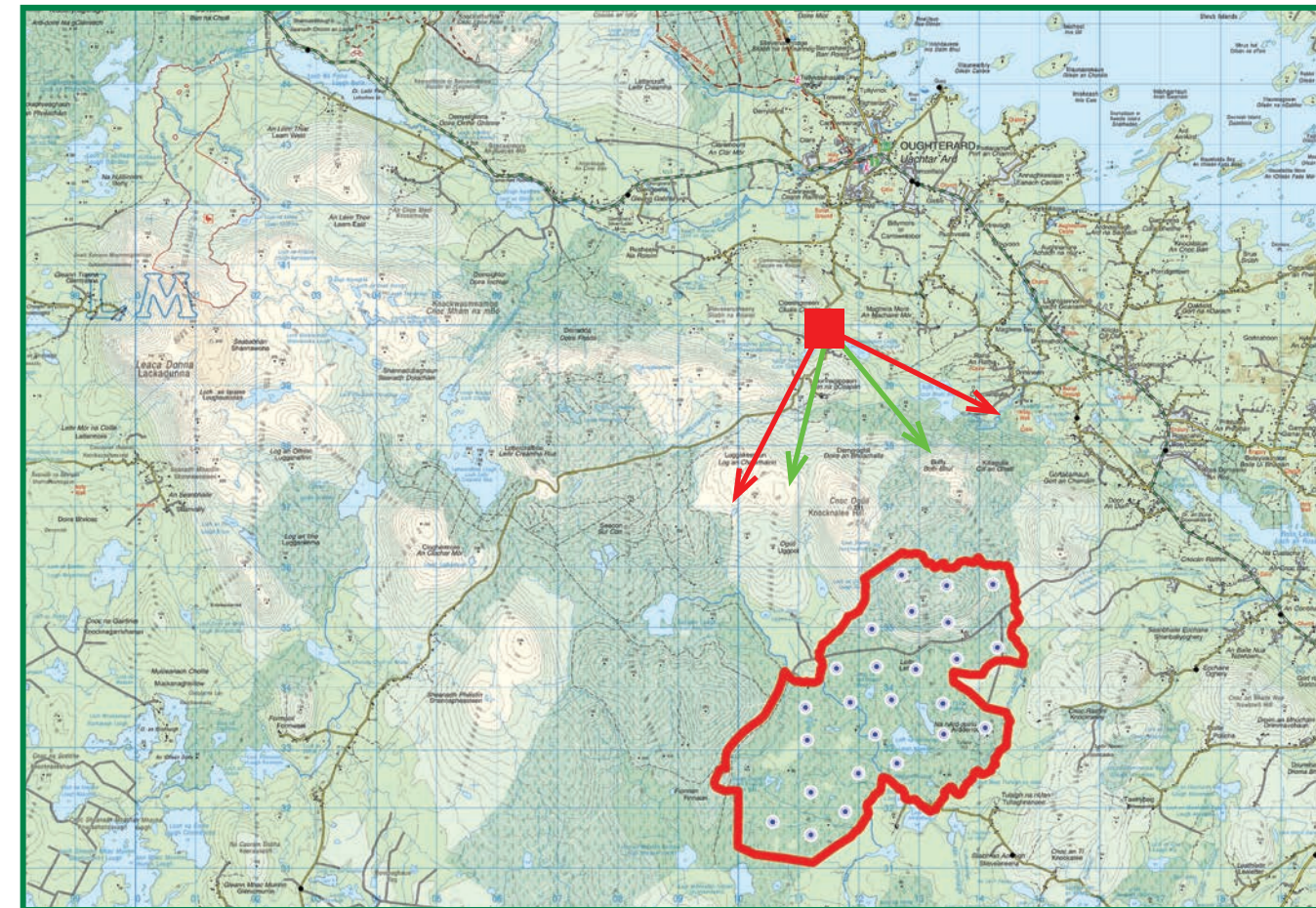
Photomontage 7

View Point: View from the local road in the townland of Clooshgreen, approximately 4.2 kilometres northwest of the nearest turbine.

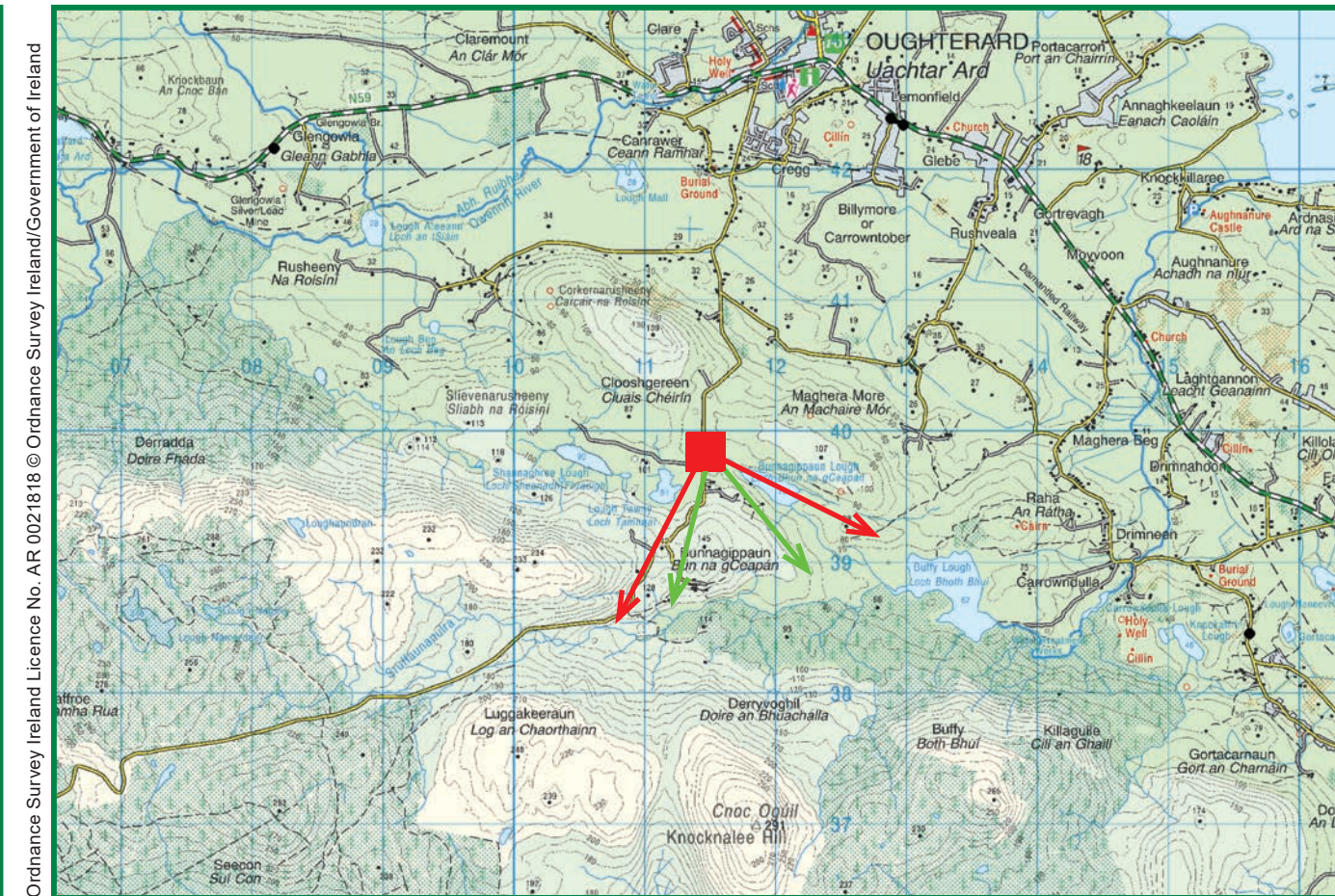
View point grid reference	111,454(E); 240,077(N)
Date of image taken	29.06.201
Time of image taken	15:51pm
View point elevation	85m
Angle of View	90°
View Direction (Image Centre)	162°
Horizontal extent of proposed turbines	40°
Distance to nearest proposed turbine	4.2km (T1)
Number of proposed turbines visible	3/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 7 relative to 20km radius.



View point 7 relative to wind farm site (core boundary outlined in red).



Detail of view point 7 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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 Website: www.mccarthykos.ie

90-Degree View Extent

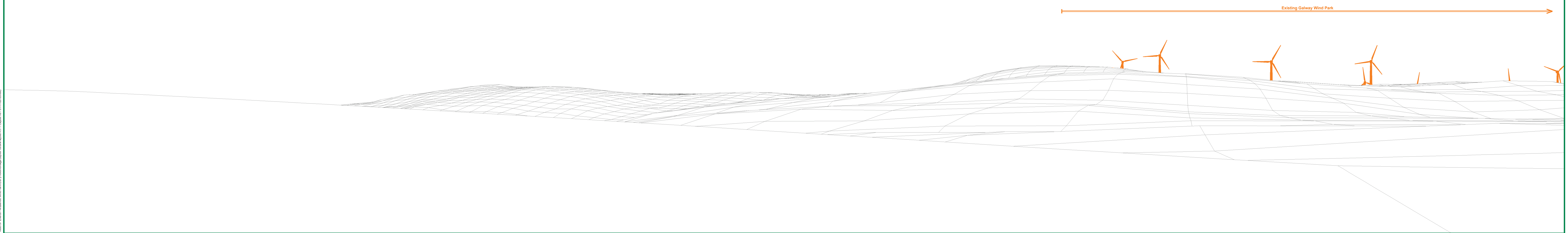
Key image at 90 degrees



53.5-Degree View Extent



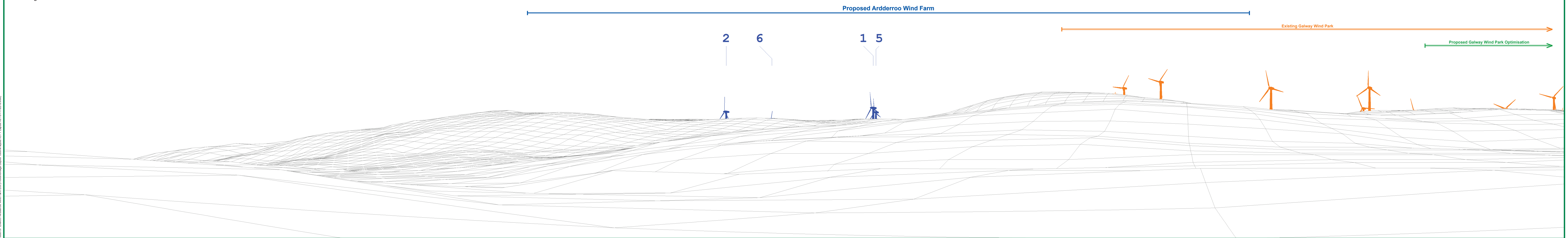
Matching wireframe



160815 - Enniscorthy - Ardaraire Wind Farm EIS (Photomontage Layout - Turbine Layout V02 - T Layout V02 - 01-11-2018.indd)



Matching wireframe



160915 - Ardderroo Wind Farm EIS (Photomontage Layout Tagged V5 - T Layout V8 - 01-11-2018.indd)

0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



160815 - Emeric - Ardennes Wind Farm EIS Photomontage Layout - T1 Layout V16 - 01-11-2018 (400)

141° Direction (Degrees)

168°

195°

Matching wireframe

Proposed Ardderroo Wind Farm

Existing Galway Wind Park

2

6

1

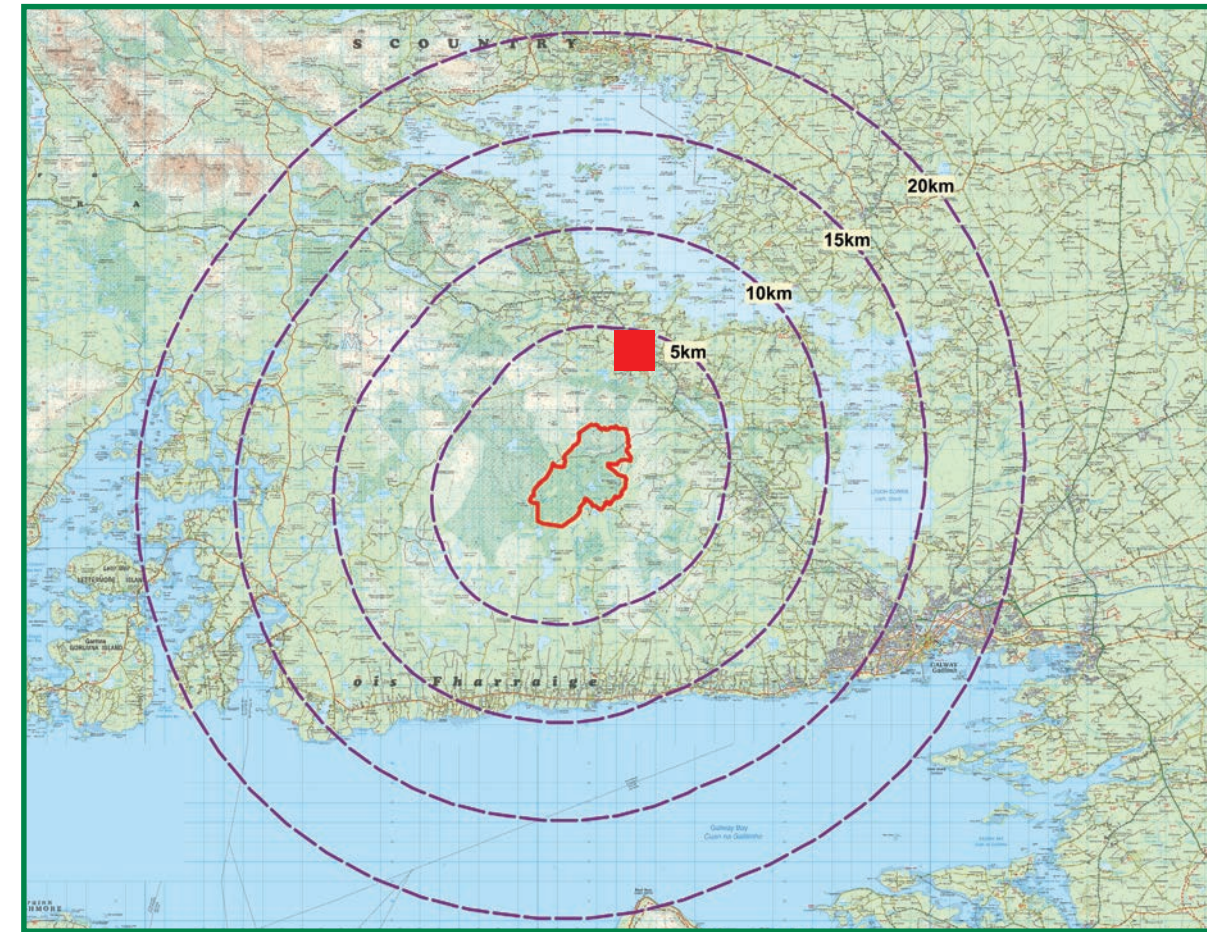
5



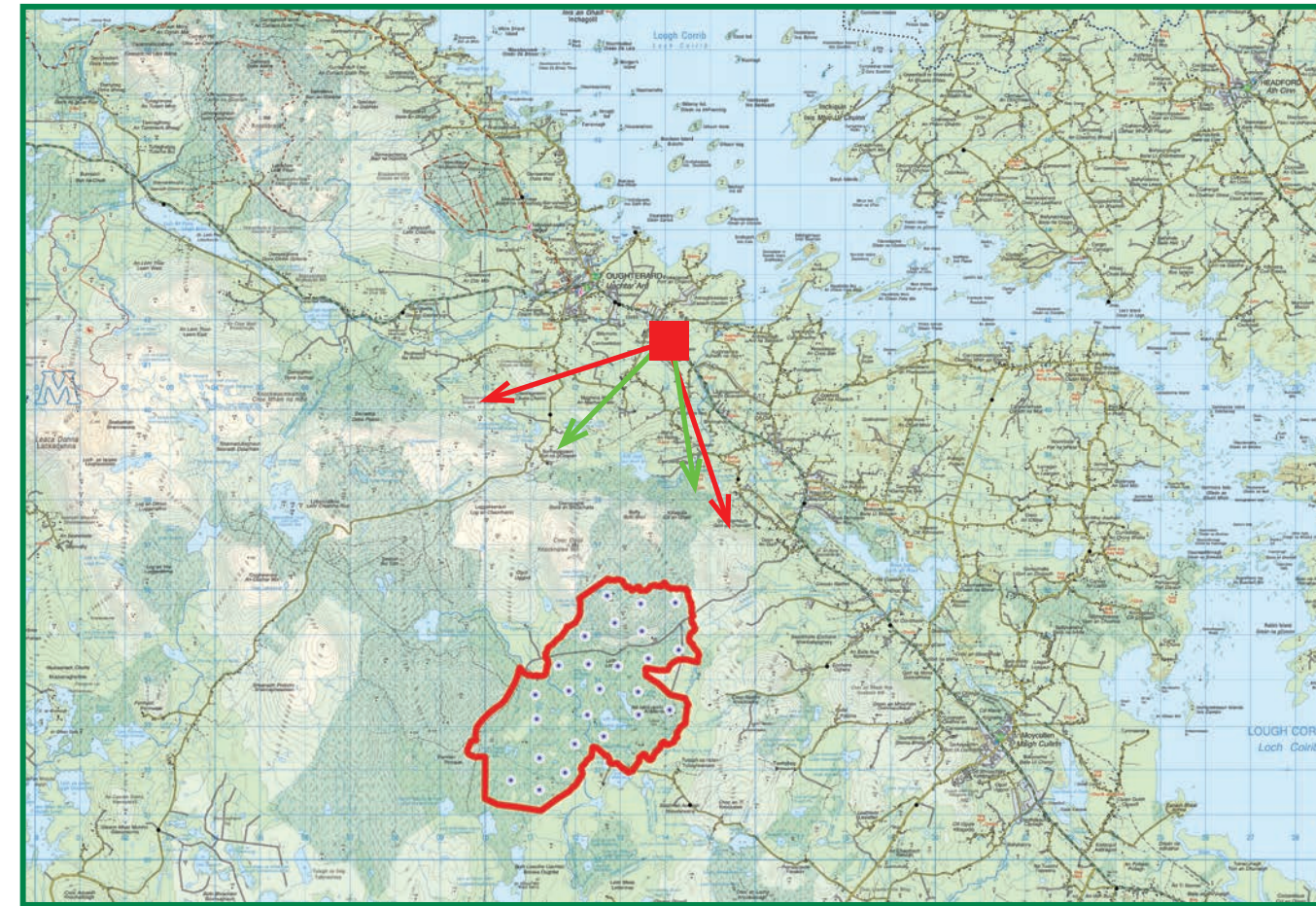
Photomontage 8

View Point: View from the National Secondary Route N59 in the townland of Gortrevagh, approximately 5.85 kilometres north of the nearest turbine.

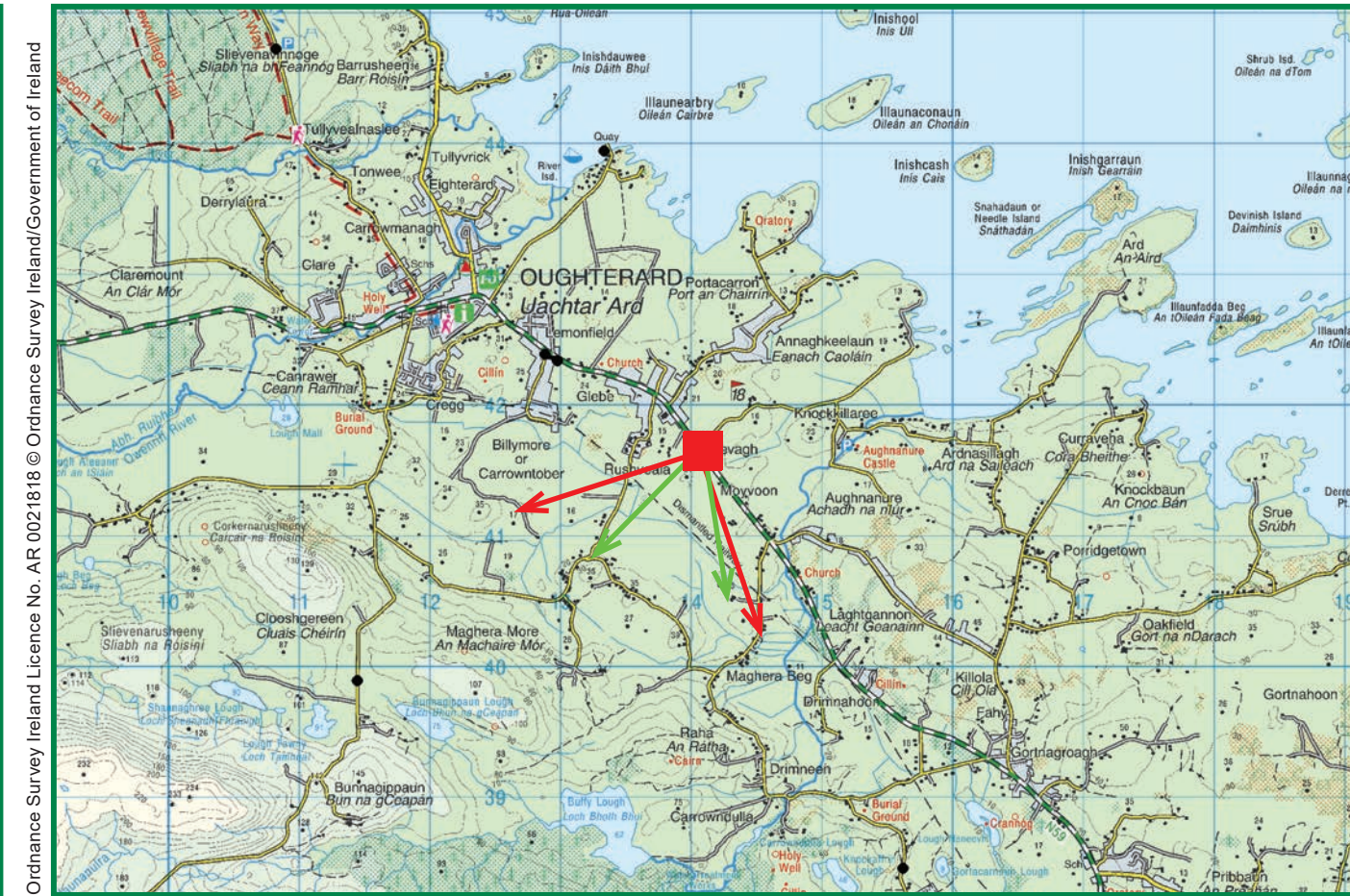
View point grid reference	114,132(E); 241,582(N)
Date of image taken	28.6.2018
Time of image taken	10.31pm
View point elevation	13m
Angle of View	90°
View Direction (Image Centre)	208°
Horizontal extent of proposed turbines	22°
Distance to nearest proposed turbine	5.85km (T4)
Number of proposed turbines visible	4/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 8 relative to 20km radius.







View point 8 relative to wind farm site (core boundary outlined in red).



Detail of view point 8 location.

Map Legend

- Area shown in 90-degree view 
- Area shown in 53.5-degree view 
- View point 
- Site Boundary 

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90-Degree View Extent

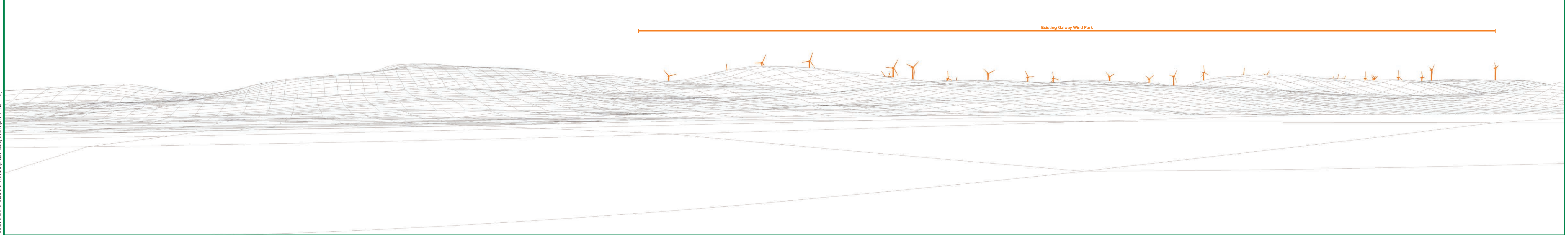
Key image at 90 degrees



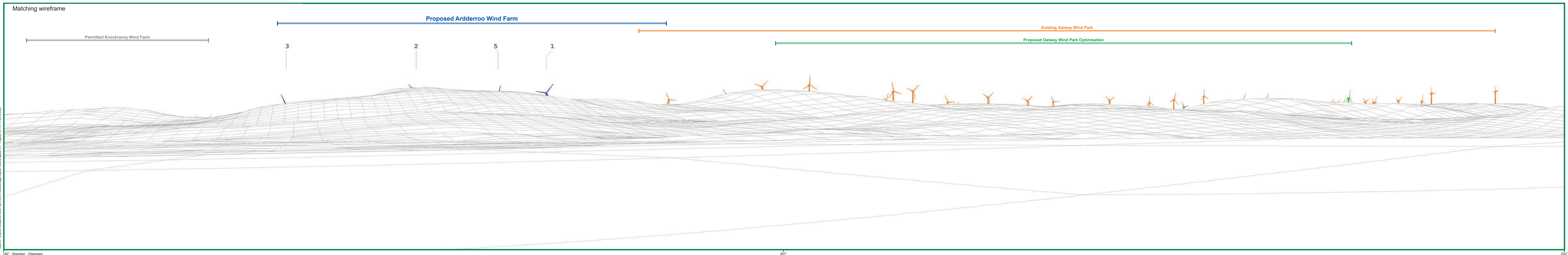
53.5-Degree View Extent



Matching wireframe



160815 - Enniscorthy Wind Farm ES (Photomontage) Layout (V01 - 11.2018.rvt)



Proposed Photomontage at 53.5 degrees with Cumulative

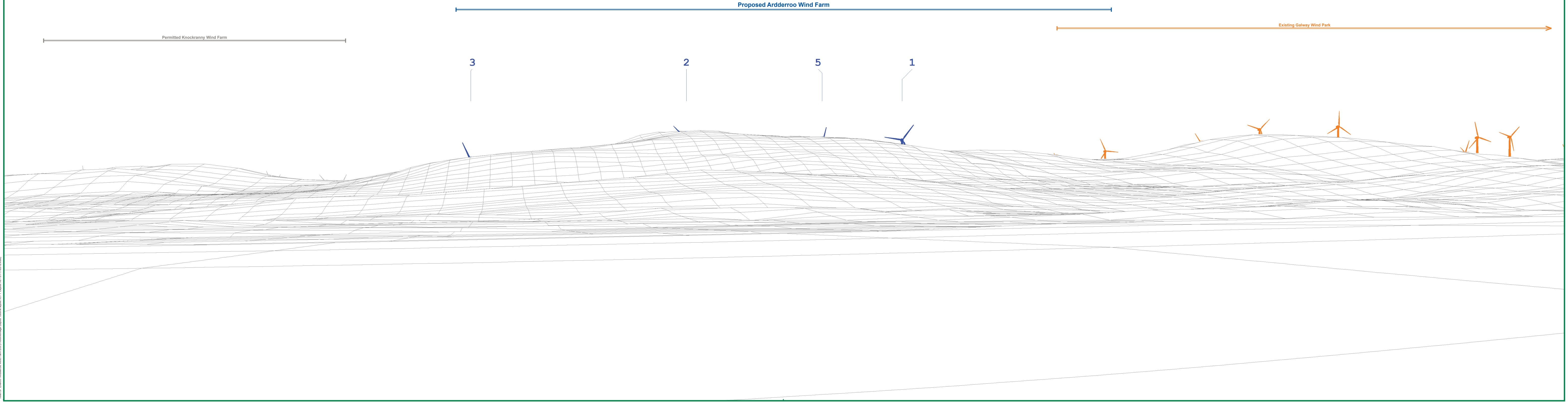


0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

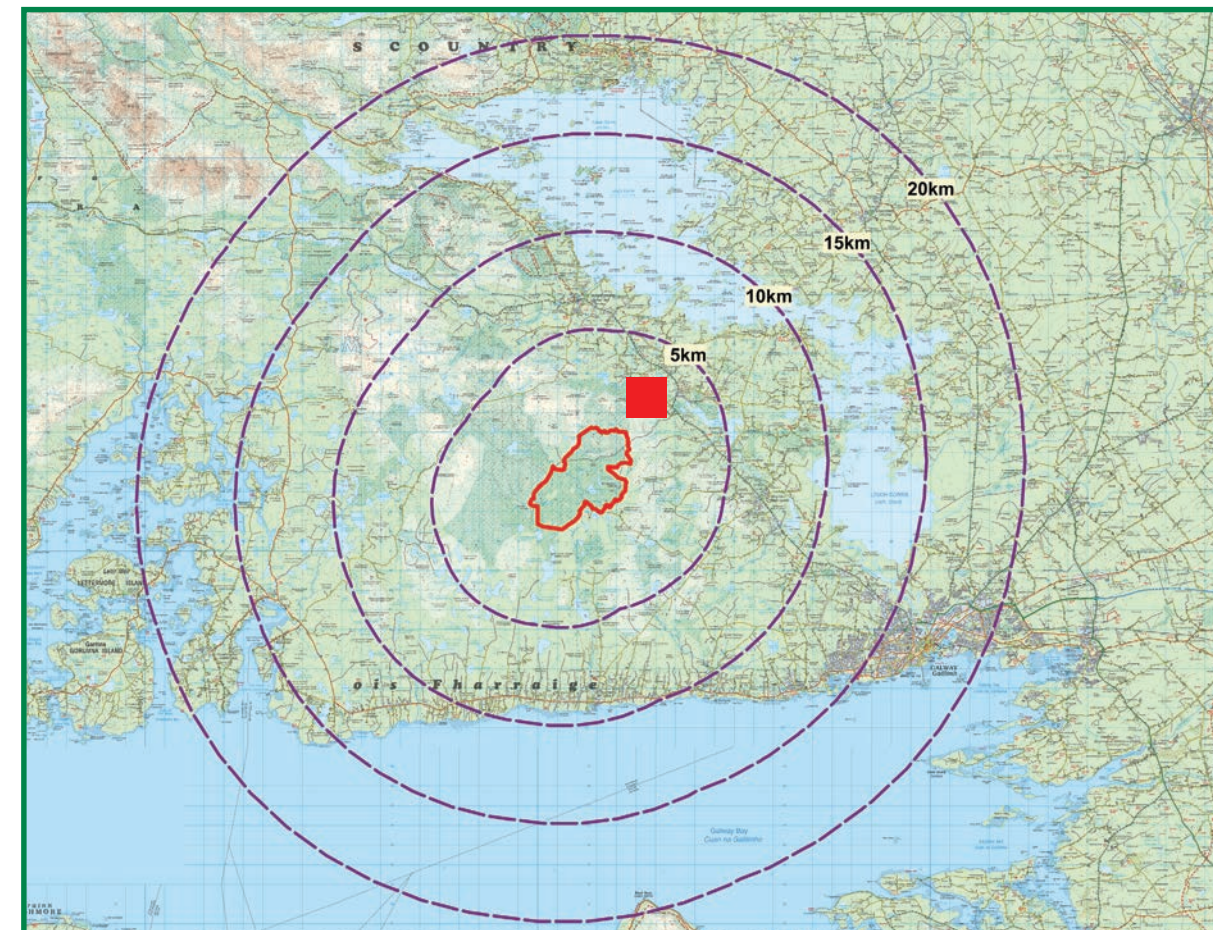


16915 - Eirias - Ardderroo Wind Farm EIS Photomontage Layout V5 - T1 Layout V8 - 01-11-2018.indd

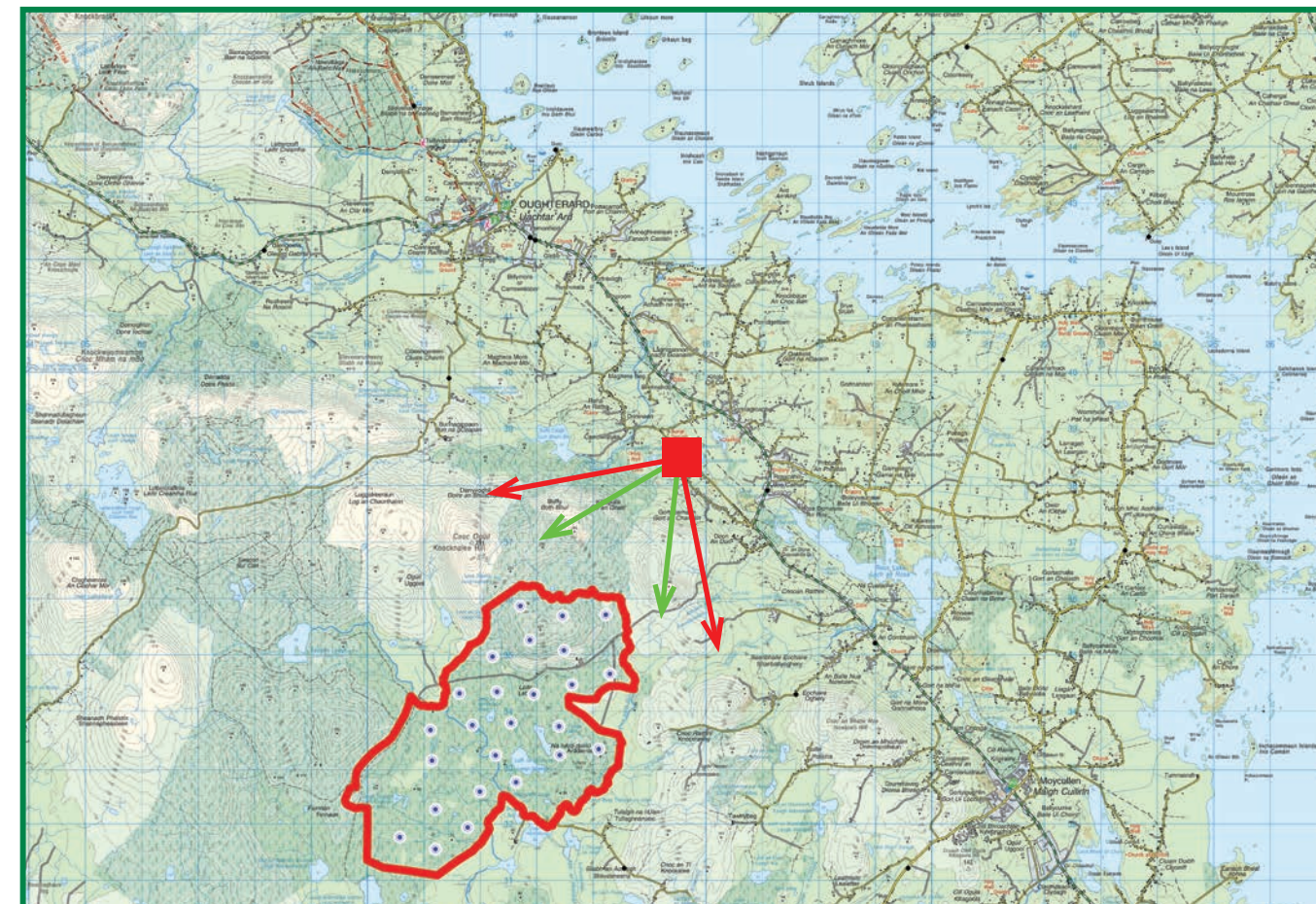
Photomontage 9

View Point: View from the local road in the townland of Gortacarnaun, approximately 3.05 kilometres northeast of the nearest turbine.

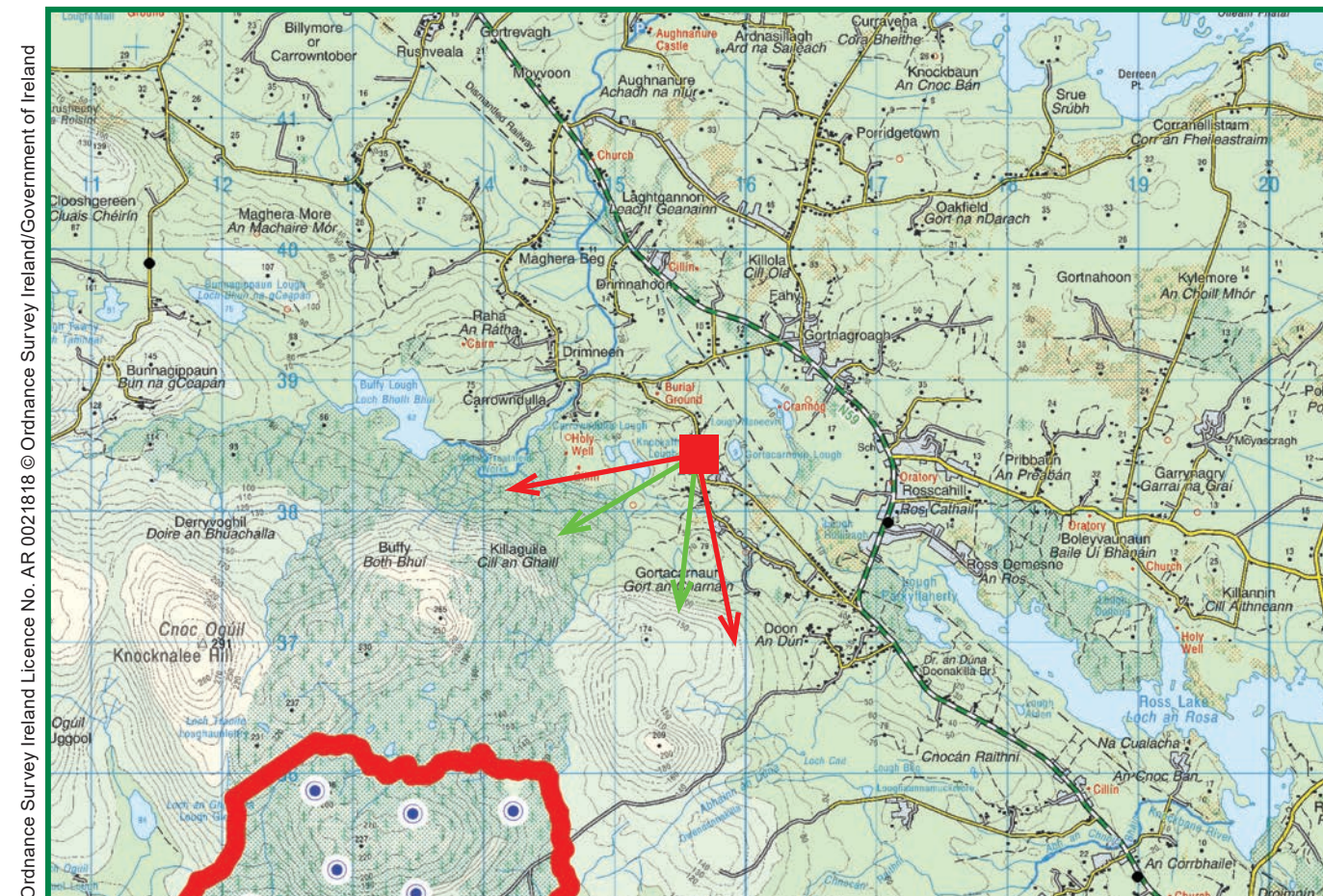
View point grid reference	115,621(E); 238,485(N)
Date of image taken	28.06.2018
Time of image taken	11:13am
View point elevation	28m
Angle of View	90°
View Direction (Image Centre)	214°
Horizontal extent of proposed turbines	31°
Distance to nearest proposed turbine	3.05km (T4)
Number of proposed turbines visible	4/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 9 relative to 20km radius.



View point 9 relative to wind farm site (core boundary outlined in red).



Detail of view point 9 location.

Map Legend

Area shown in 90-degree view



Area shown in 53.5-degree view



View point



Site Boundary



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90-Degree View Extent

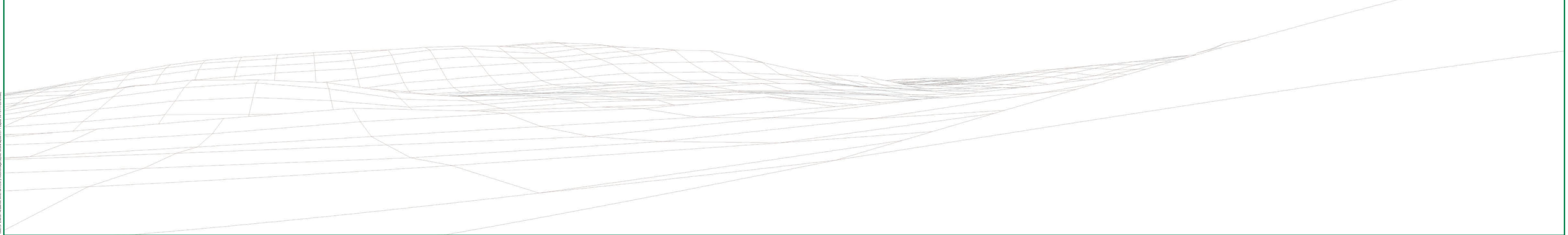
Key image at 90 degrees



53.5-Degree View Extent

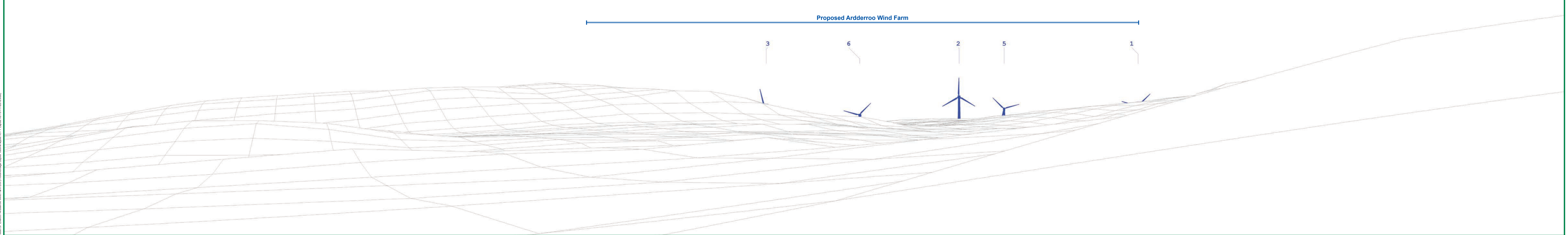


Matching wireframe





Matching wireframe

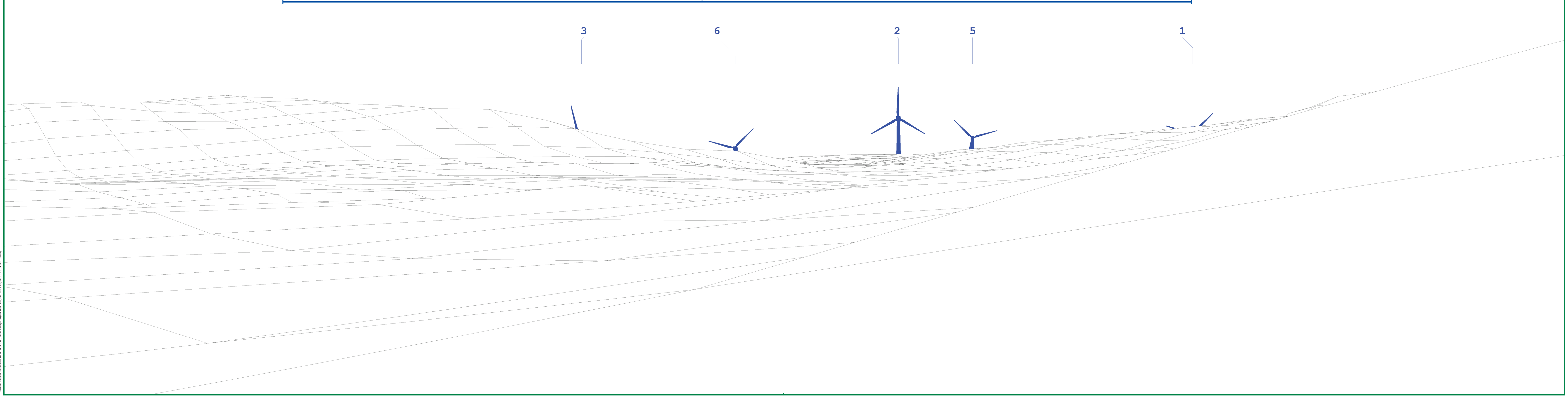


Proposed Photomontage at 53.5 degrees with Cumulative



Matching wireframe

Proposed Ardderroo Wind Farm



3

6

2

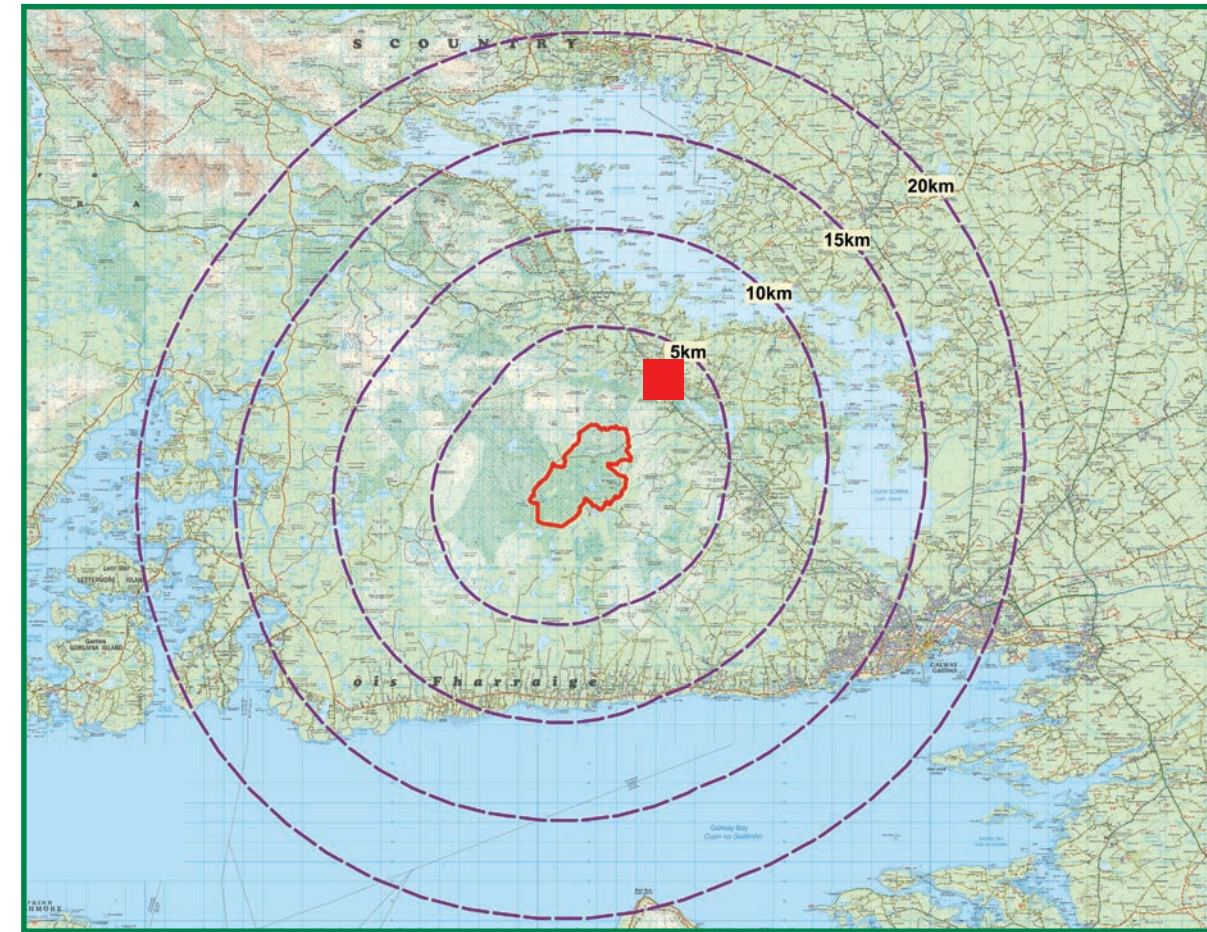
5

1

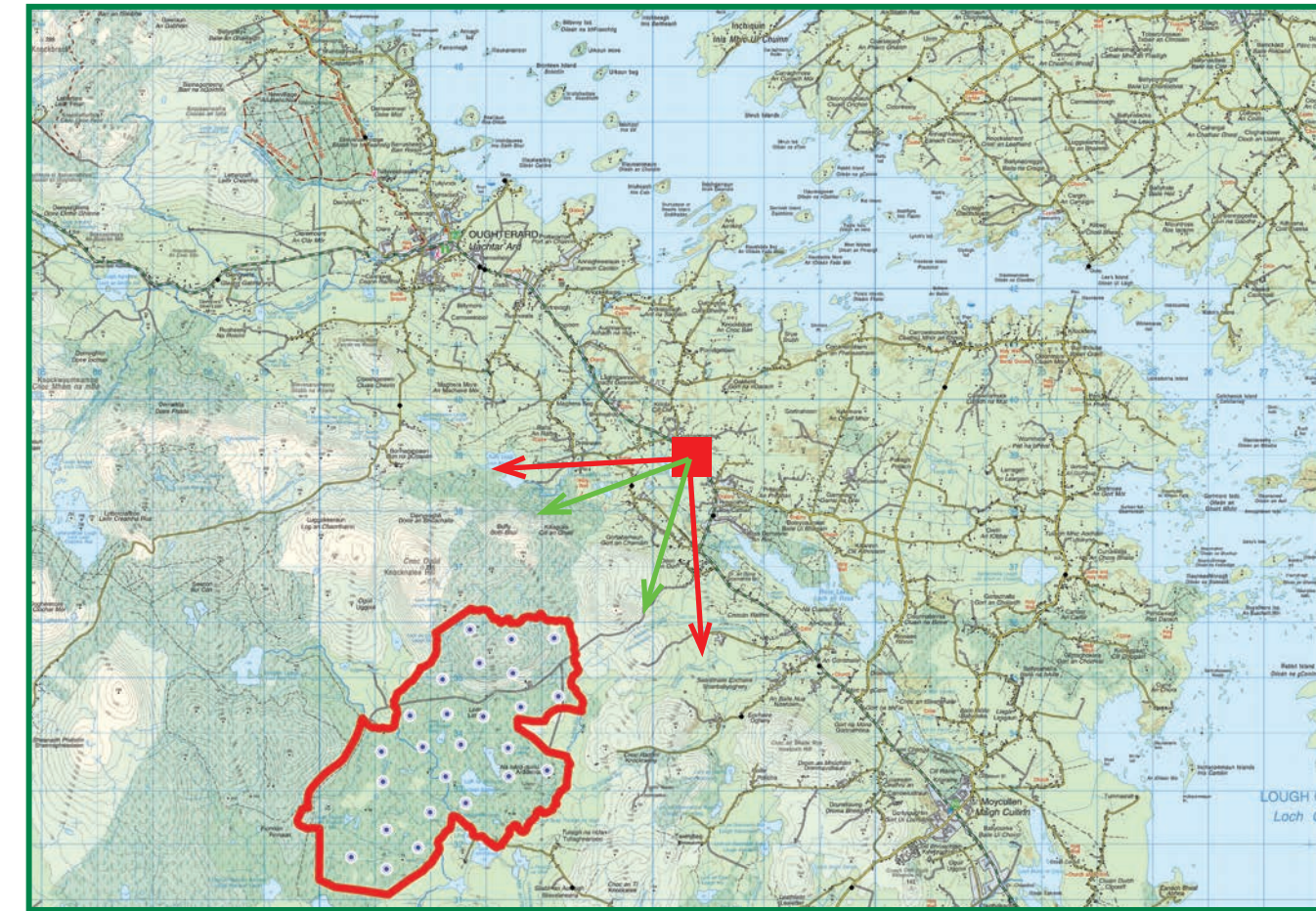
Photomontage 10

View Point: View from the N59 National Secondary Route in the townland of Roscahill West, approximately 4.05 kilometres northeast of the nearest turbine.

View point grid reference	116,628(E); 239,024(N)
Date of image taken	28.06.2018
Time of image taken	10:58pm
View point elevation	20m
Angle of View	90°
View Direction (Image Centre)	248°
Horizontal extent of proposed turbines	26°
Distance to nearest proposed turbine	4.05km (T4)
Number of proposed turbines visible	1/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 10 relative to 20km radius.



View point 10 relative to wind farm site (core boundary outlined in red).



Detail of view point 10 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

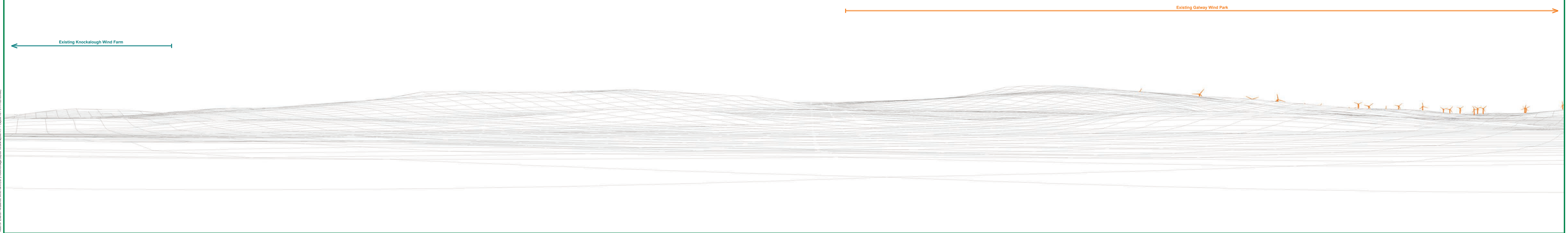
Key image at 90 degrees

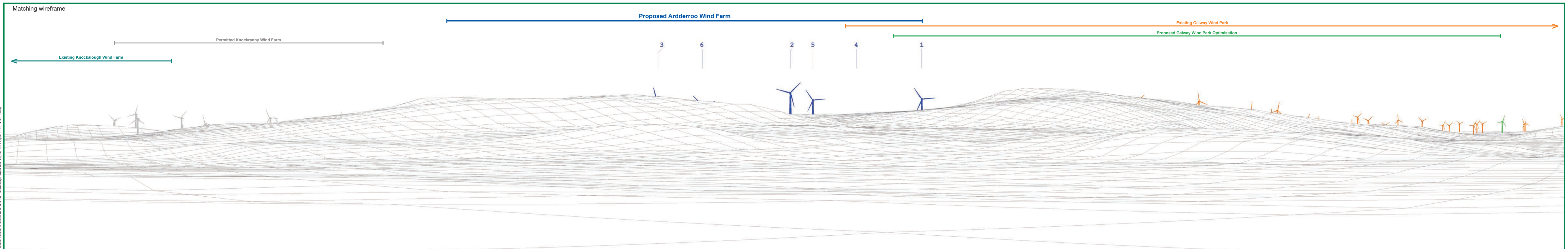


53.5-Degree View Extent



Matching wireframe





Proposed Photomontage at 53.5 degrees with Cumulative



0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Proposed Ardderroo Wind Farm

Existing Galway Wind Park

Proposed Galway Wind Park Optimisation

Permitted Knockranny Wind Farm

3

6

2

5

4

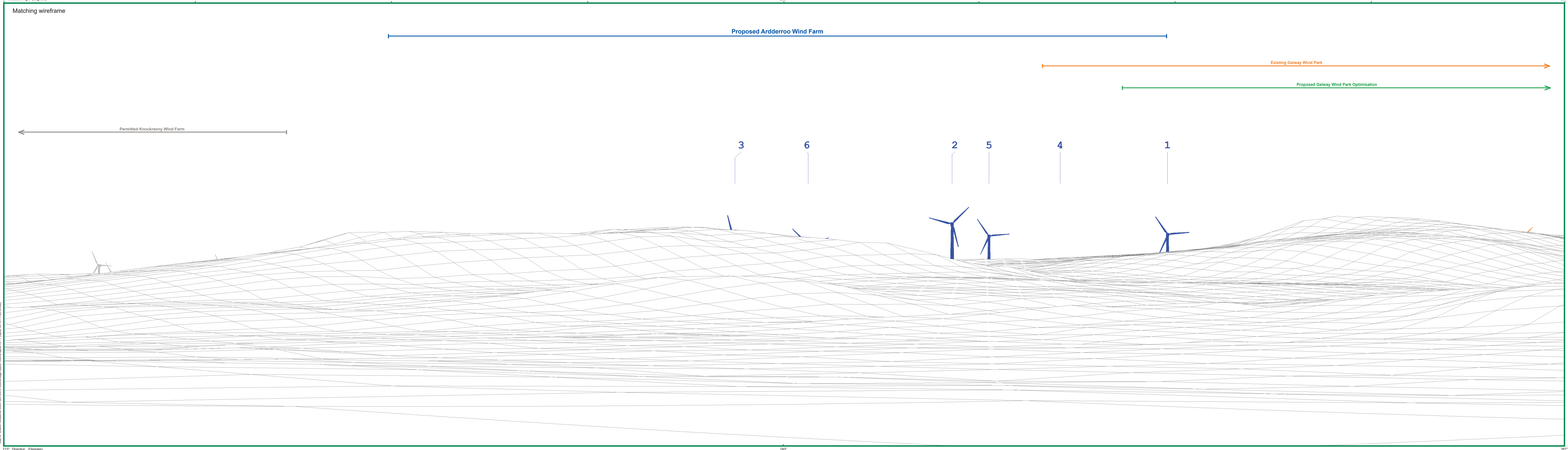
1

169815 - Eirias - Ardderroo Wind Farm EIS Photomontage Layout Turbine layout V5 - T Layout V8 - 01-11-2018.indd

213° Direction (Degrees)

240°

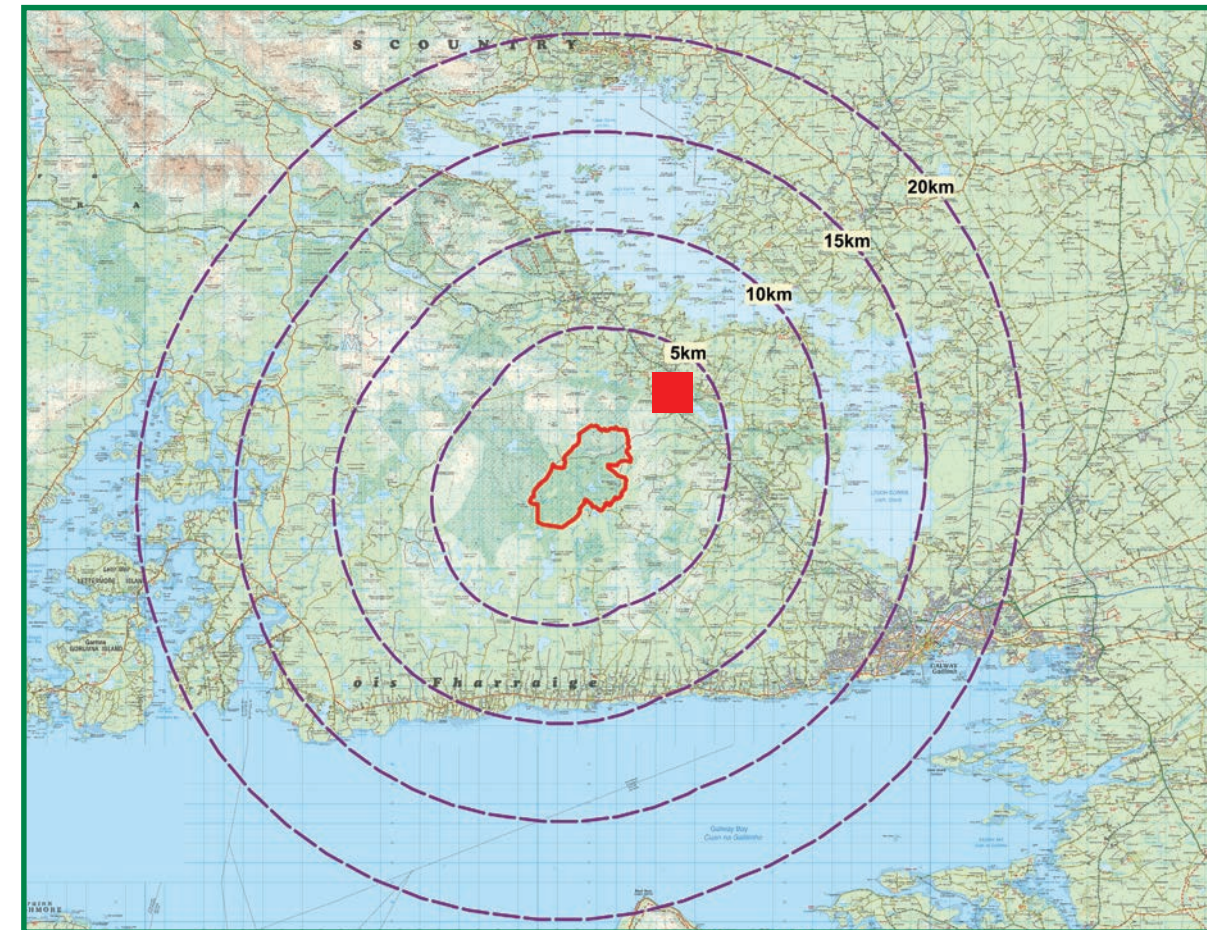
267°



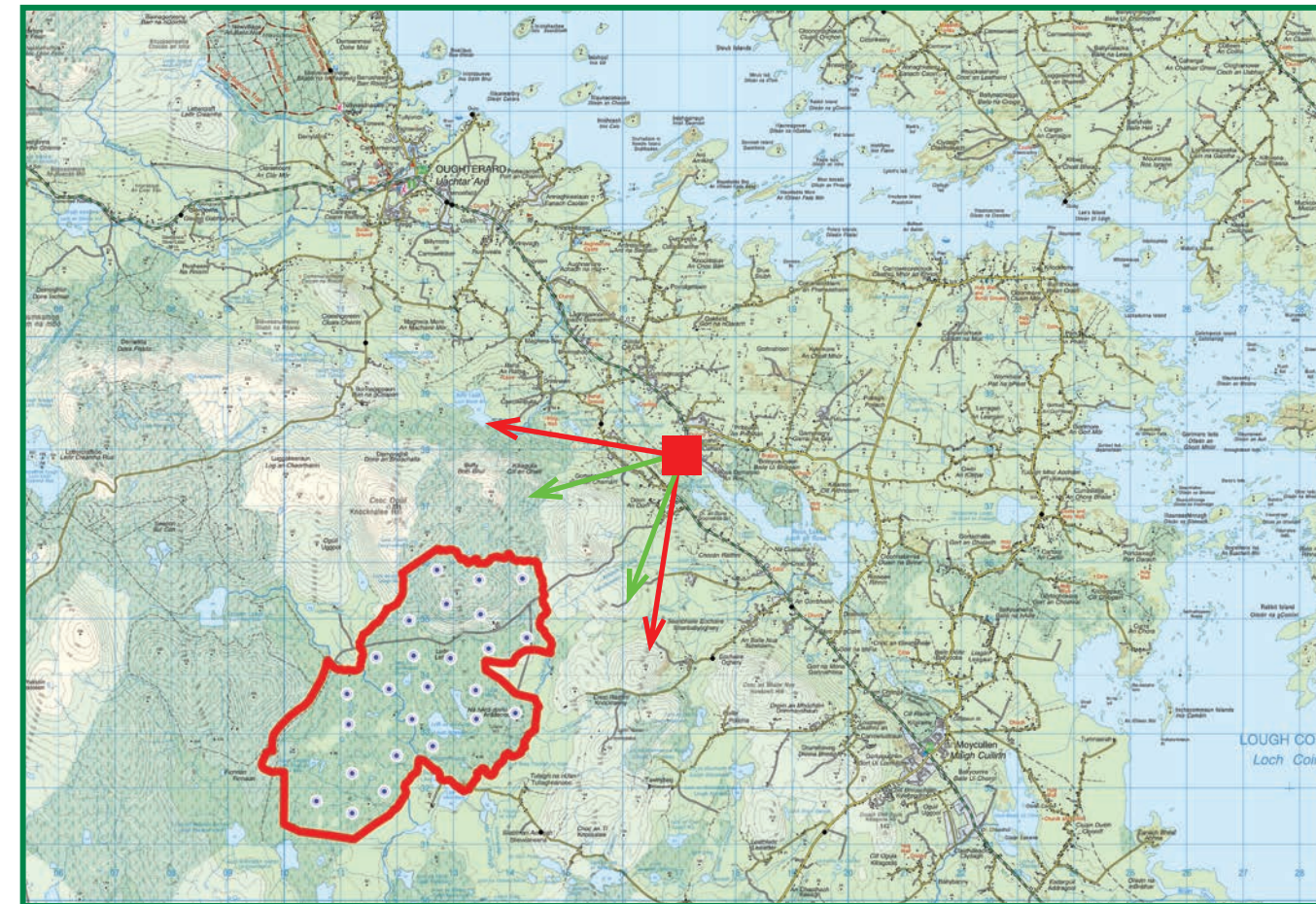
Photomontage 11

View Point: View from the N59 National Secondary Road in the townland of Ross Demesne, approximately 3.6 kilometres northeast of the nearest turbine .

View point grid reference	117,080(E); 237,940(N)
Date of image taken	28.6.2018
Time of image taken	11:41am
View point elevation	13m
Angle of View	90°
View Direction (Image Centre)	234°
Horizontal extent of proposed turbines	30°
Distance to nearest proposed turbine	3.6km (T4)
Number of proposed turbines visible	2/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 11 relative to 20km radius.



View point 11 relative to wind farm site (core boundary outlined in red).



Detail of view point 11 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

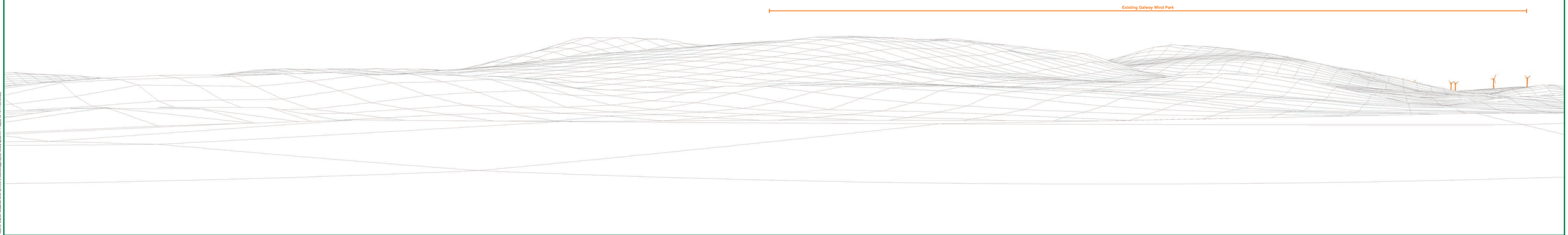
Key image at 90 degrees



53.5-Degree View Extent



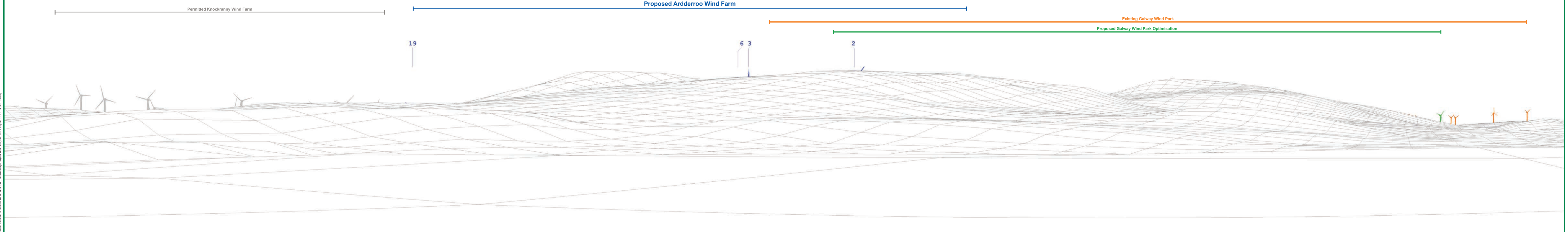
Matching wireframe



16081 E. Emery - Ardara Wind Farm ES (Photomontage Layout Turbine Layout V6 - Turbine V6 - 01-11-2018.indd)



Matching wireframe



160615 - Ardderroo Wind Farm ES (Photomontage Layout Template V5 - T Layout V8 - 01-11-2018.indd)



Proposed Photomontage at 53.5 degrees with Cumulative

0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Proposed Ardderroo Wind Farm

Existing Galway Wind Park

Proposed Galway Wind Park Optimisation

Permitted Knockranny Wind Farm

19

6

3

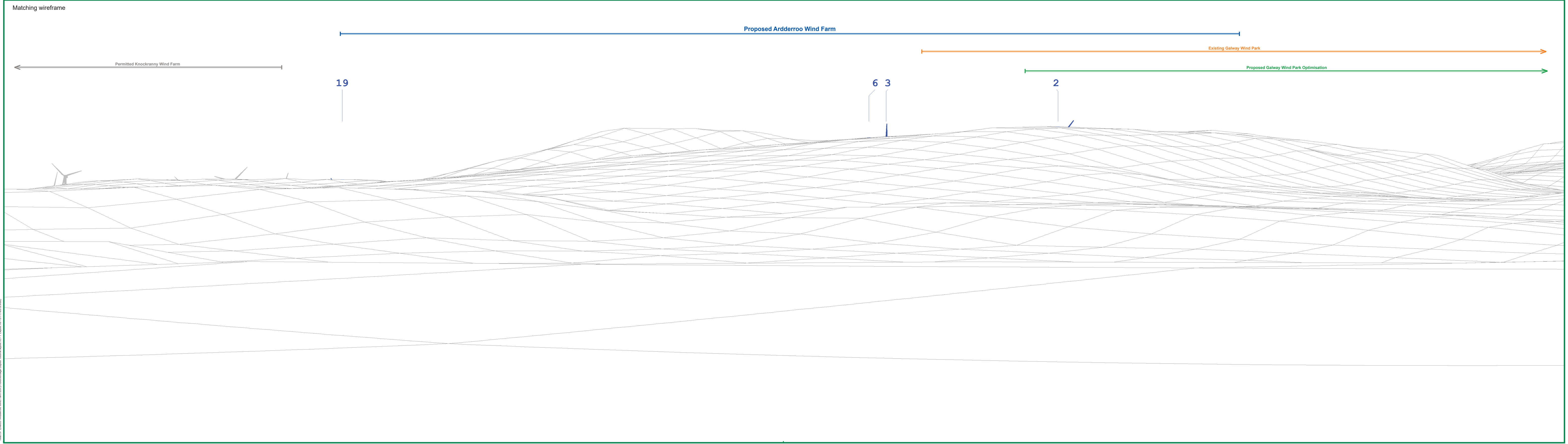
2

169615 - Eirias - Ardderroo Wind Farm EIS Photomontage Layout Turbine Layout V5 - T1 Layout V8 - 01-11-2018.indd

202° Direction (Degrees)

228°

254°



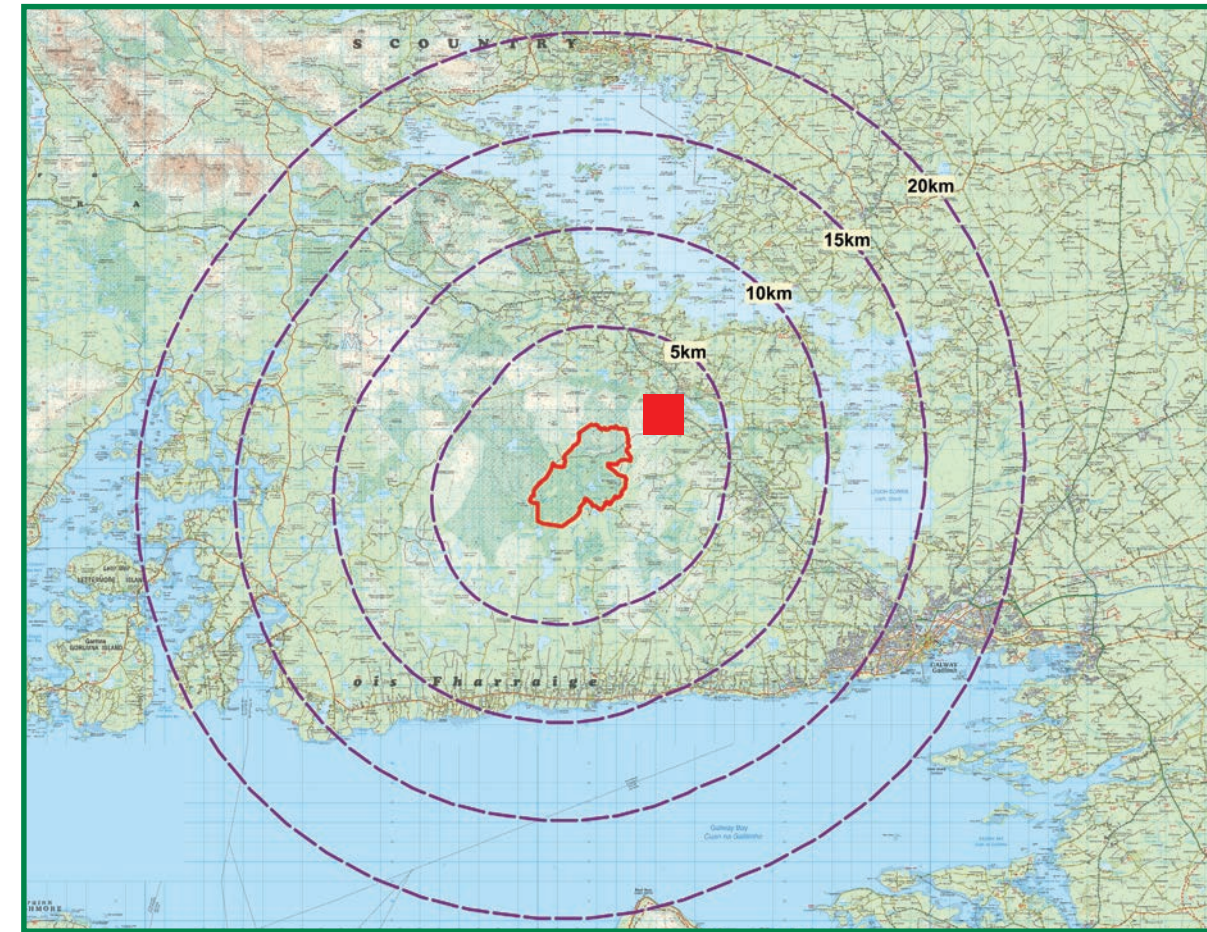
View Point 12

Doon

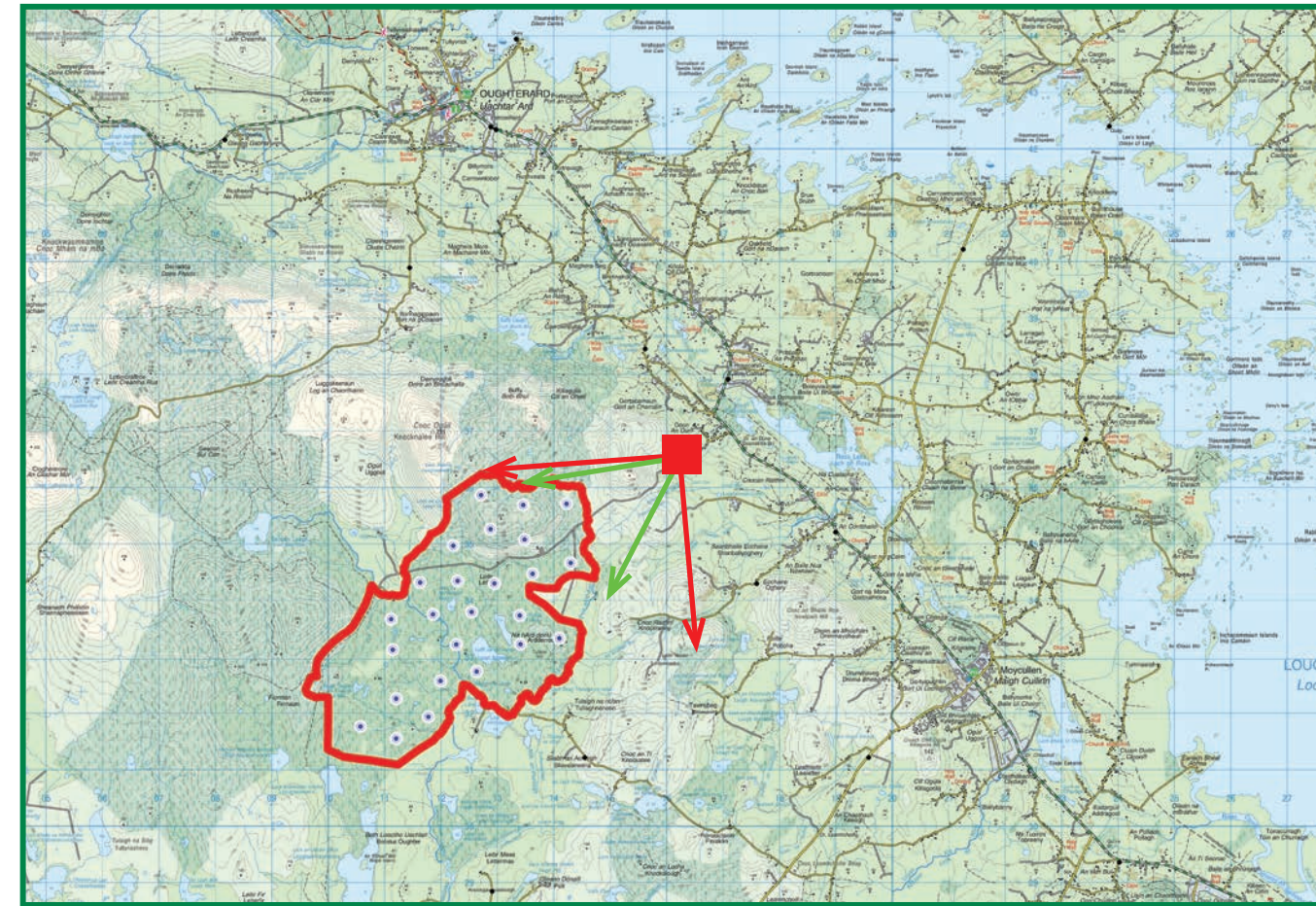
Photomontage 12

View Point: View from the local road in the townland of Doon, approximately 2.35 kilometres east of the nearest turbine.

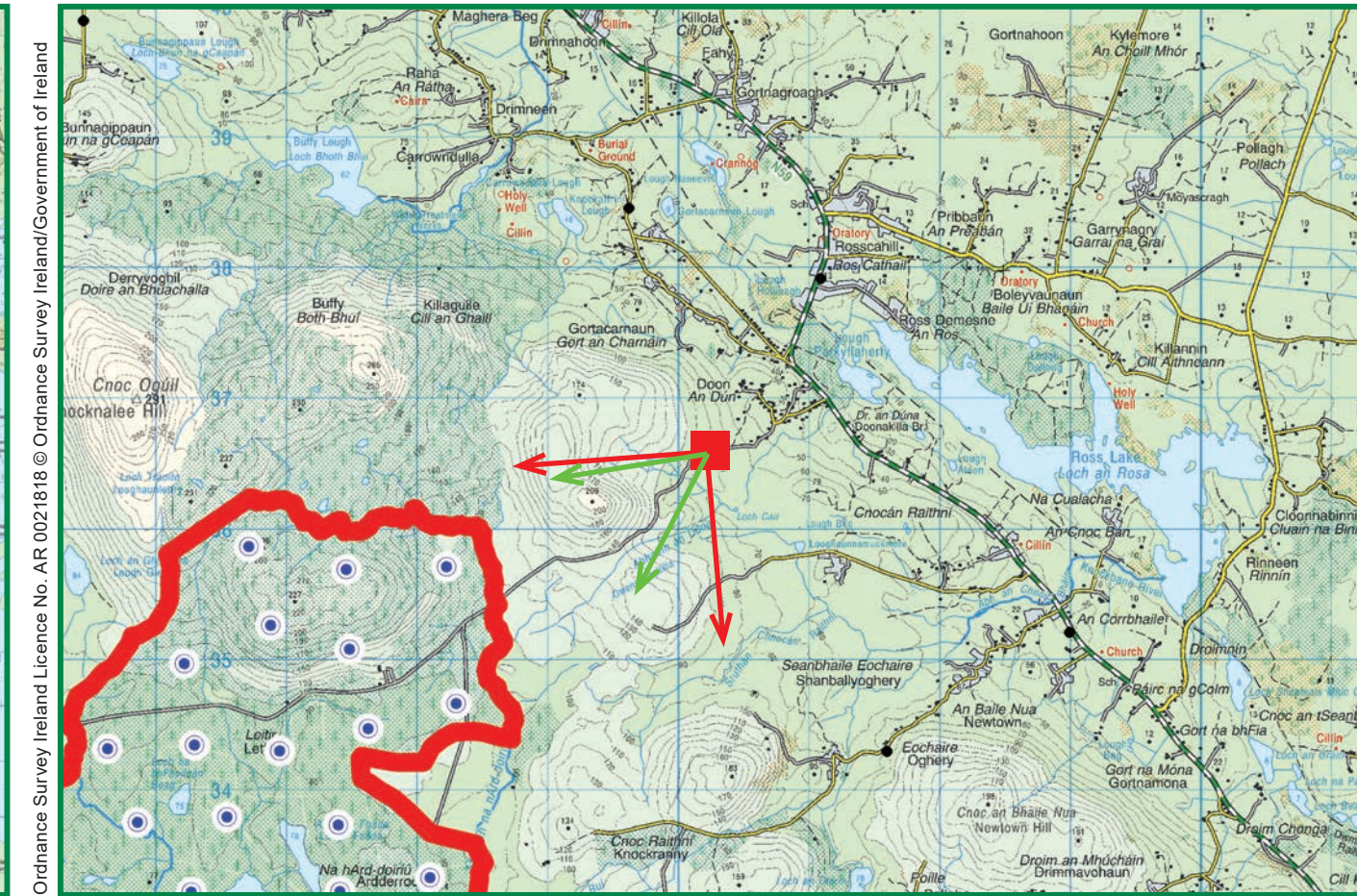
View point grid reference	116,444(E); 236,628(N)
Date of image taken	28.6.2018
Time of image taken	11:41am
View point elevation	67m
Angle of View	90°
View Direction (Image Centre)	221°
Horizontal extent of proposed turbines	41°
Distance to nearest proposed turbine	2.35km (T4)
Number of proposed turbines visible	1/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 12 relative to 20km radius.



View point 12 relative to wind farm site (core boundary outlined in red).



Detail of view point 12 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

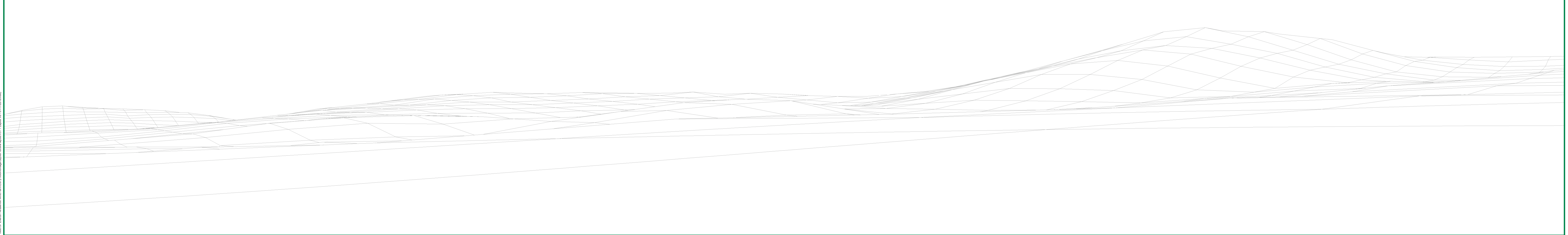
Key image at 90 degrees

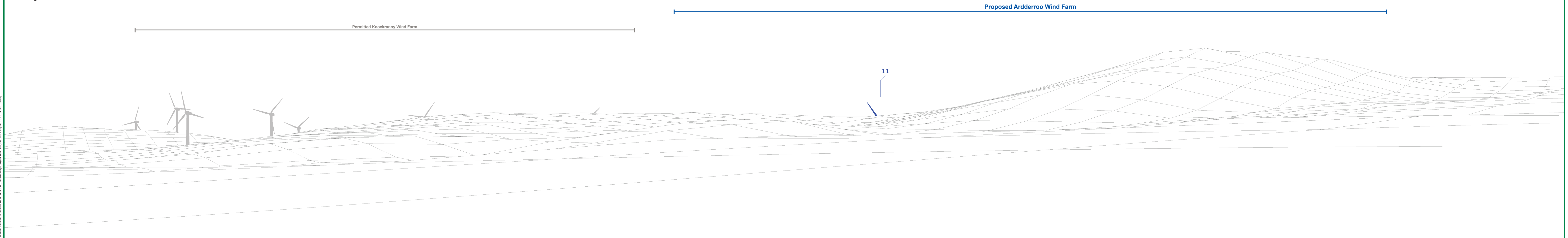


53.5-Degree View Extent



Matching wireframe





Proposed Photomontage at 53.5 degrees with Cumulative



0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Proposed Ardderroo Wind Farm

Permitted Knockranny Wind Farm

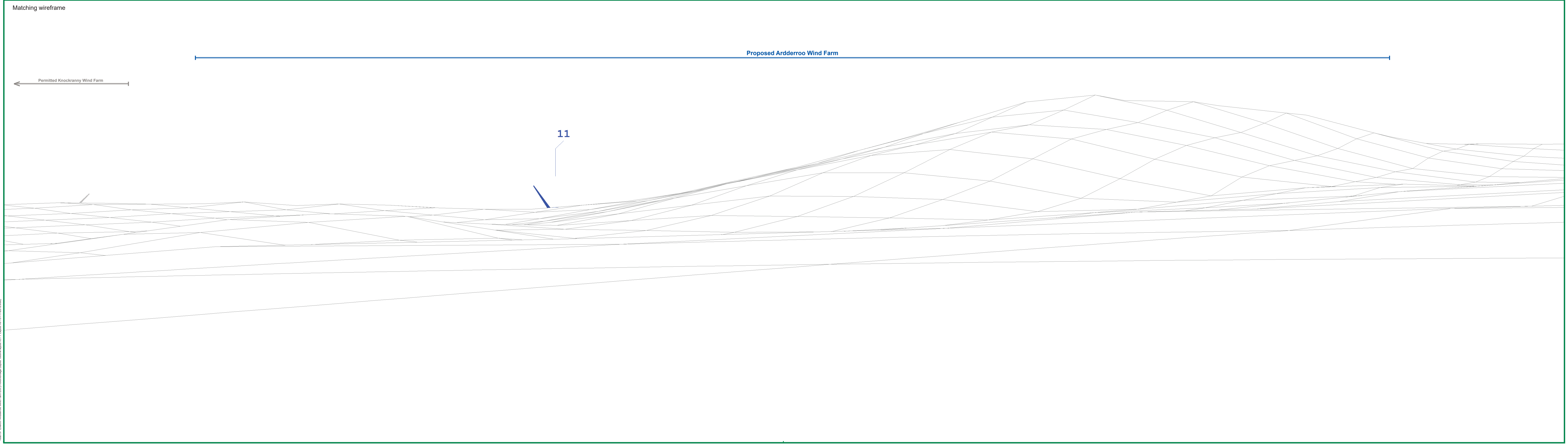
11

169615 - Eirias - Ardderroo Wind Farm EIS Photomontage Layout Turbine Layout V5 - T1 Layout V8 - 01-11-2018.indd

206° Direction (Degrees)

234°

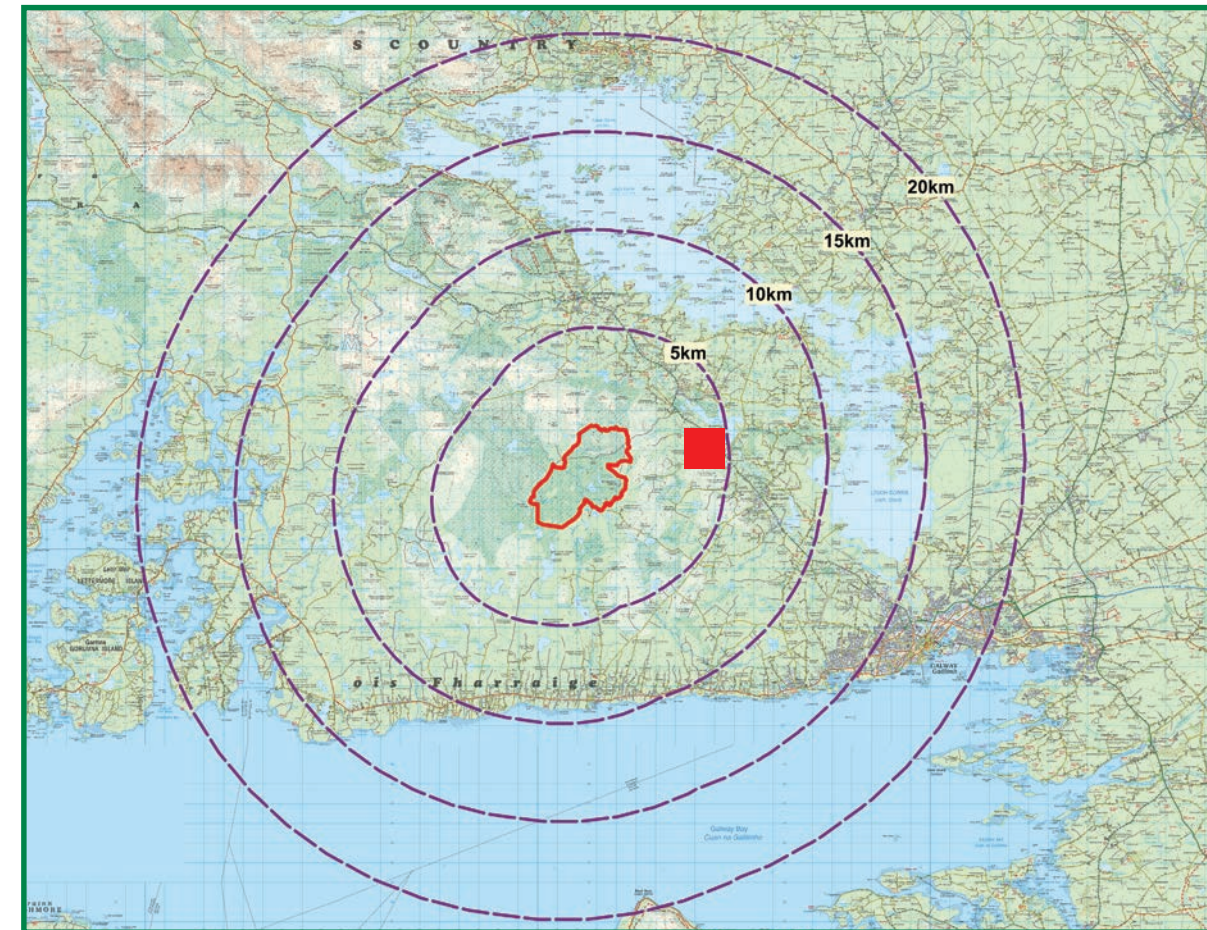
260°



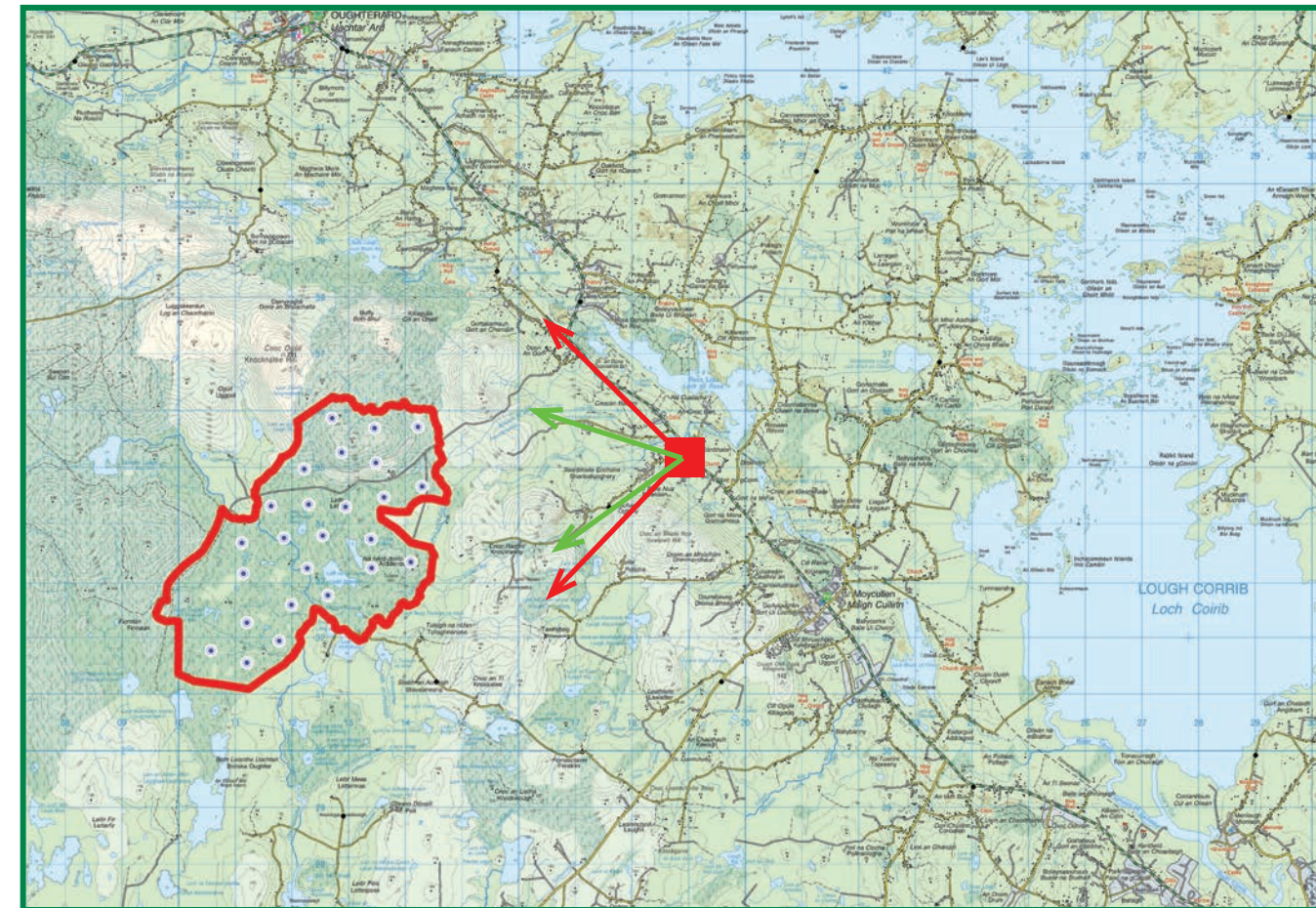
Photomontage 13

View Point: View from the National Secondary Route N59 in the townland of Knockbane, approximately 4.7 kilometres east of the nearest turbine.

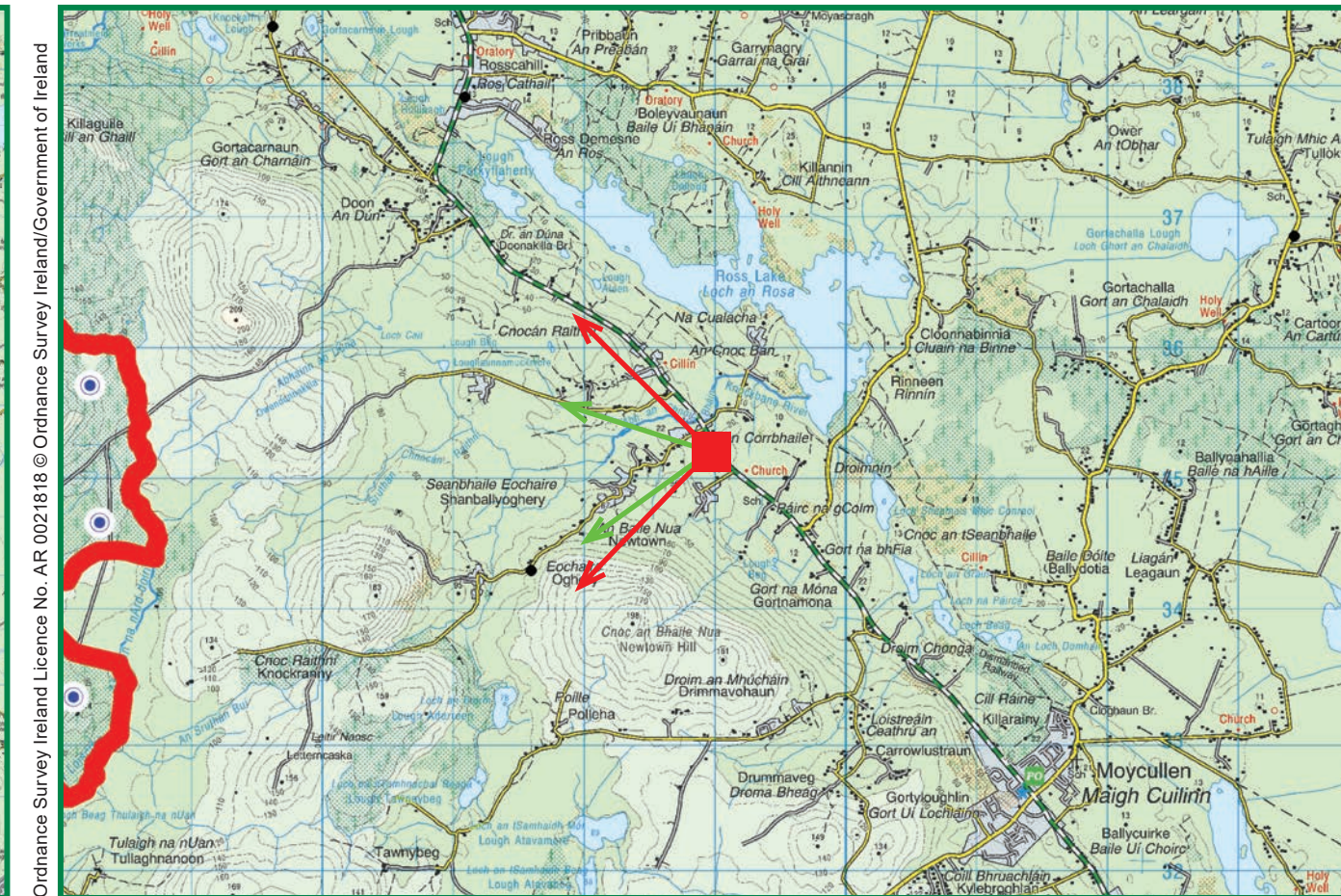
View point grid reference	118,995(E); 235,244(N)
Date of image taken	28.6.2018
Time of image taken	12:42pm
View point elevation	19m
Angle of View	90°
View Direction (Image Centre)	270°
Horizontal extent of proposed turbines	30°
Distance to nearest proposed turbine	4.7km (T11)
Number of proposed turbines visible	9/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 13 relative to 20km radius.



View point 13 relative to wind farm site (core boundary outlined in red).



Detail of view point 13 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

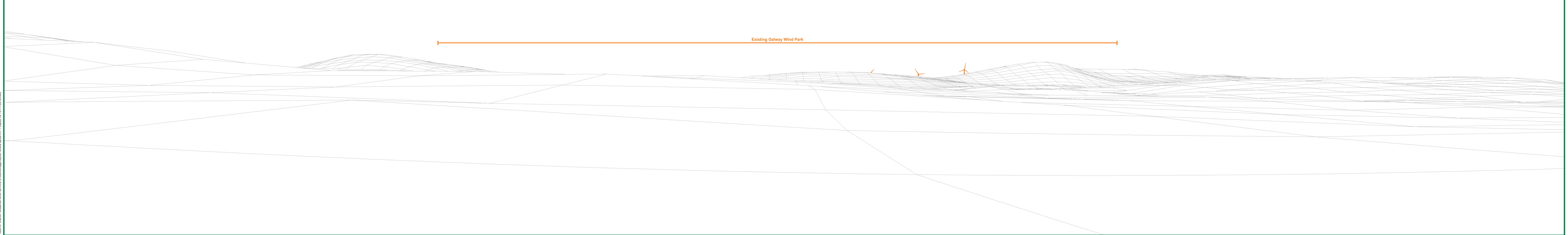
Key image at 90 degrees



53.5-Degree View Extent



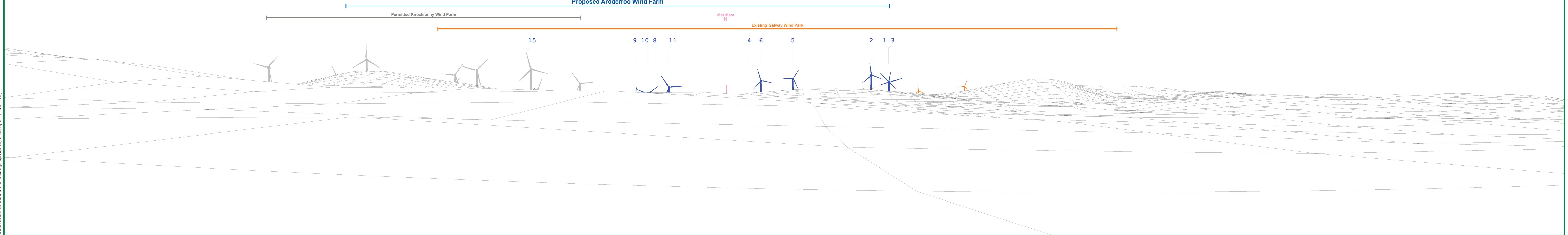
Matching wireframe



16081 E. Emery - Ardaraire Wind Farm EIS (Photomontage) Layout Turbine Layout (V2 - Turbine V2 - 01-11-2018.rvt)



Matching wireframe



160615 - Ardderroo Wind Farm EIS (Photomontage Layout) - T Layout V8 - 01-11-2018 (x2)

0° Included Angle (Degrees)

26.0°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



160815 - E-macro - Audience View From E18 Photomontage Layout - T1 Layout V16.0 (11/11/2018 14:03)

225° Direction (Degrees)

270°

315°

Matching wireframe

Proposed Ardderroo Wind Farm

Permitted Knockranny Wind Farm

Existing Galway Wind Park

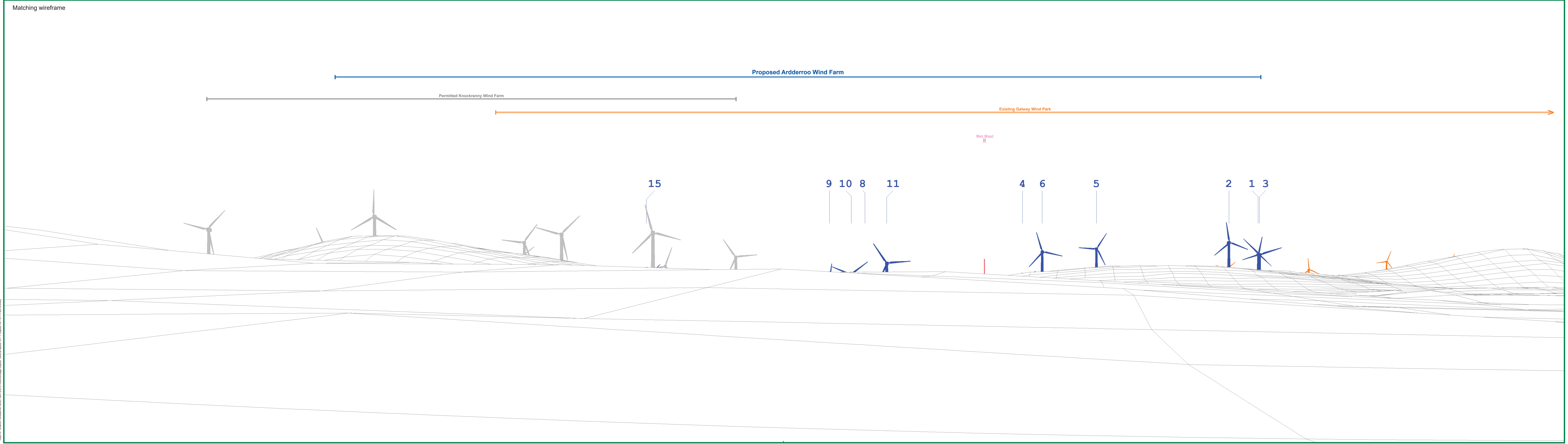
Met Mast

15

9 10 8 11

4 6 5

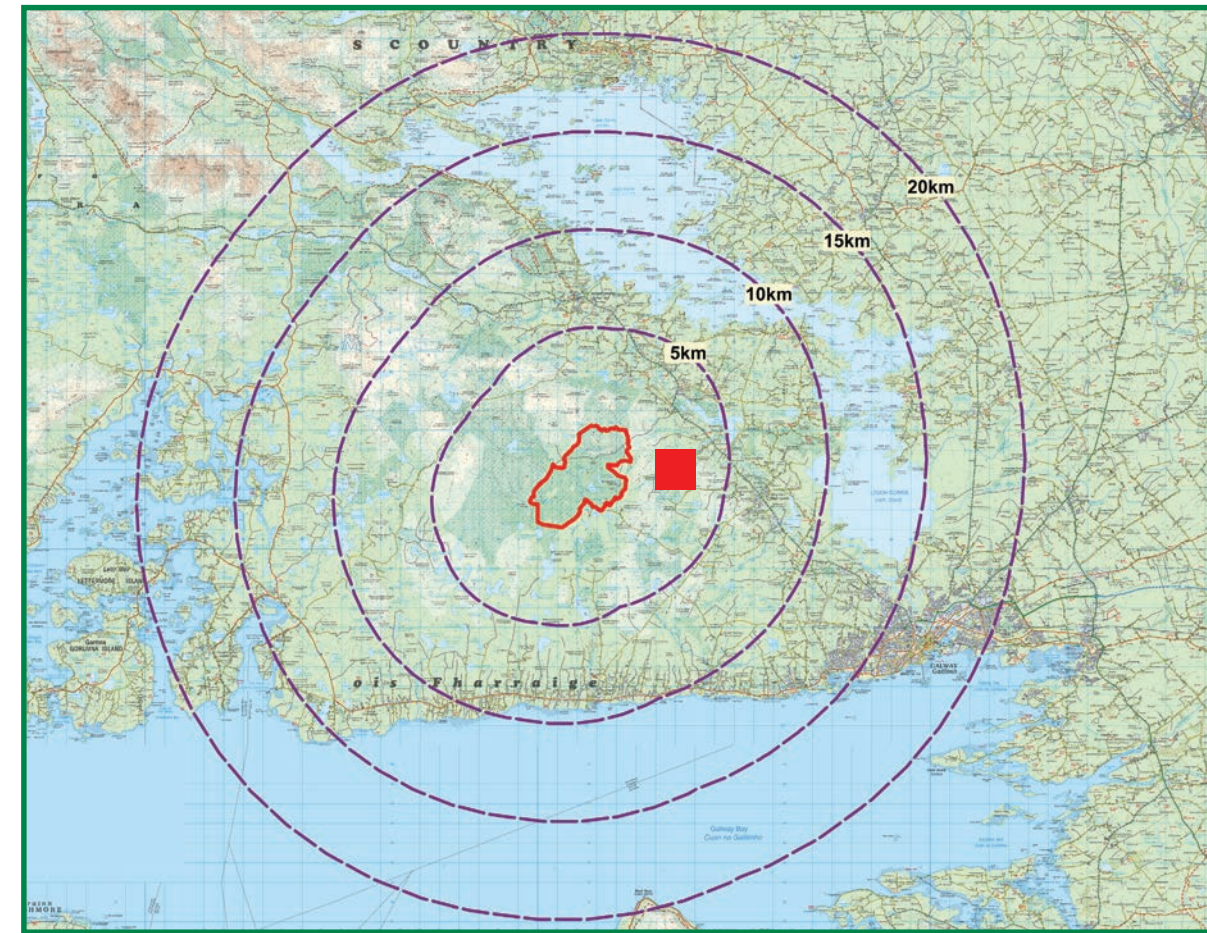
2 1 3



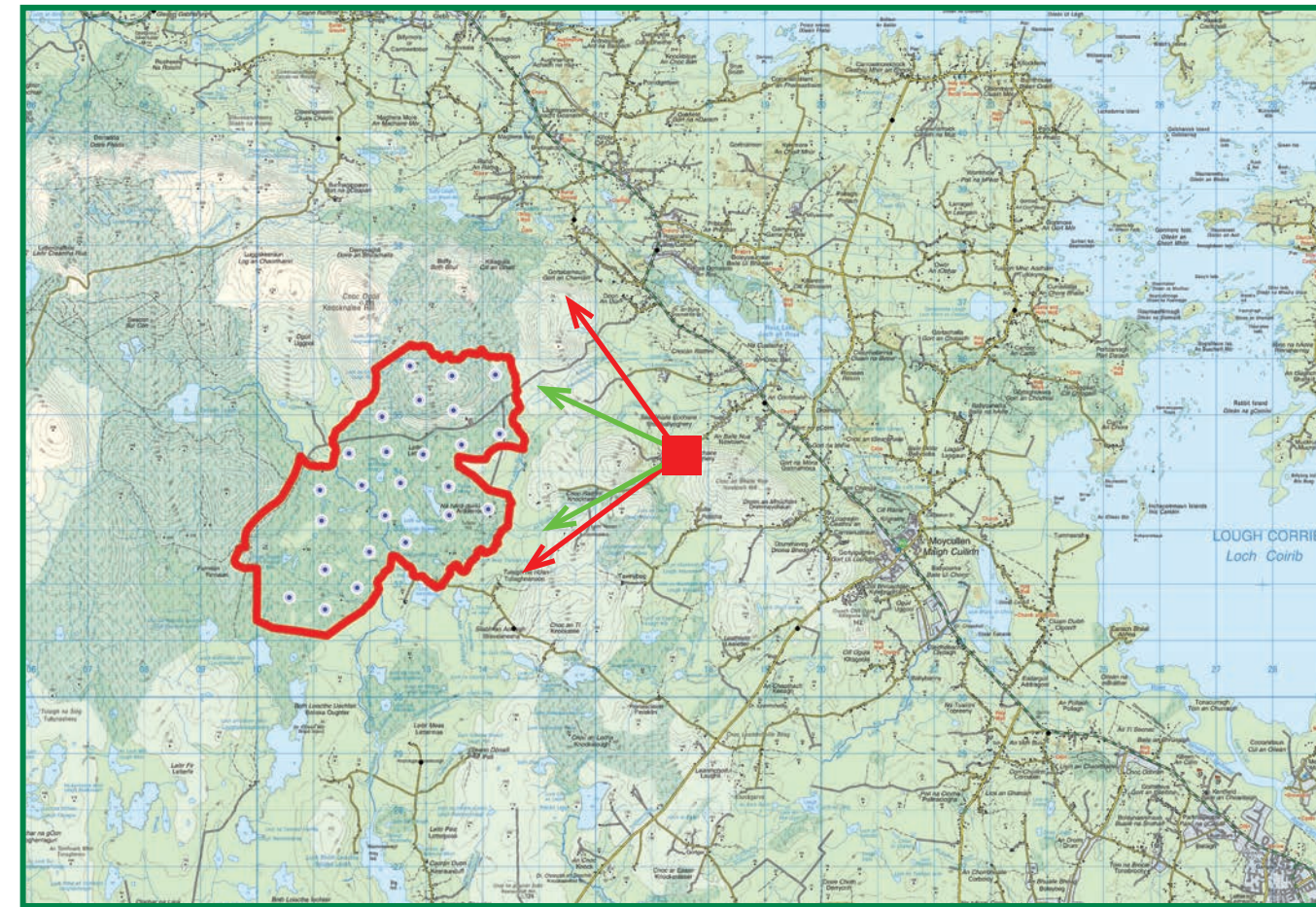
Photomontage 14

View Point: View from the local road in the townland of Oghery, approximately 3.3 kilometres east of the nearest turbine.

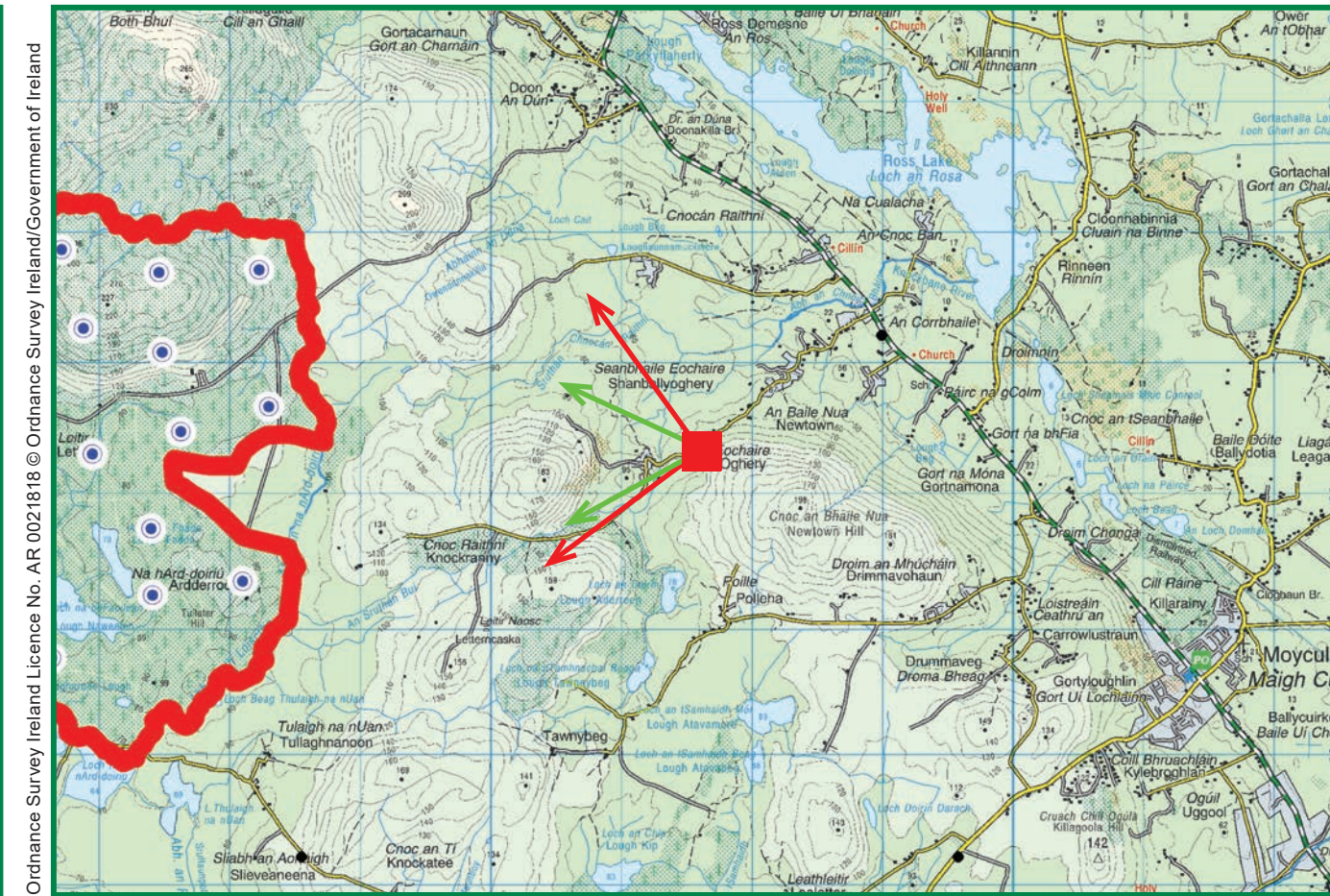
View point grid reference	117,585(E); 234,327(N)
Date of image taken	28.6.2018
Time of image taken	12:27pm
View point elevation	76m
Angle of View	90°
View Direction (Image Centre)	280°
Horizontal extent of proposed turbines	47°
Distance to nearest proposed turbine	3.3km (T11)
Number of proposed turbines visible	7/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 14 relative to 20km radius.



View point 14 relative to wind farm site (core boundary outlined in red).



Detail of view point 14 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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 Website: www.mccarthykos.ie

90-Degree View Extent

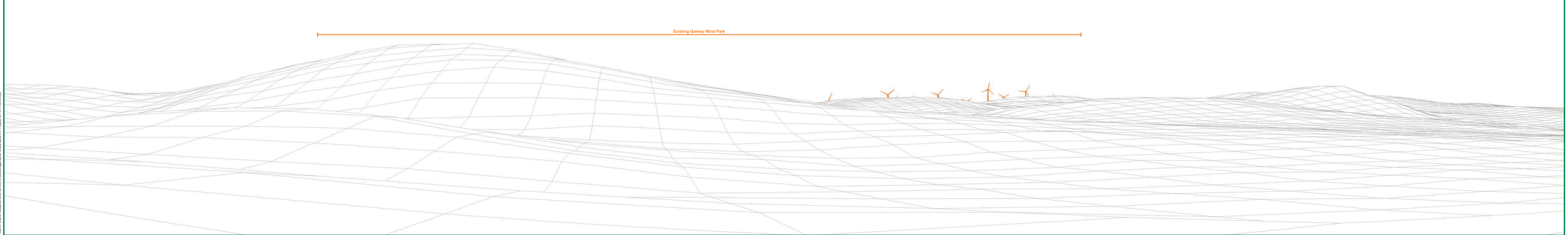
Key image at 90 degrees



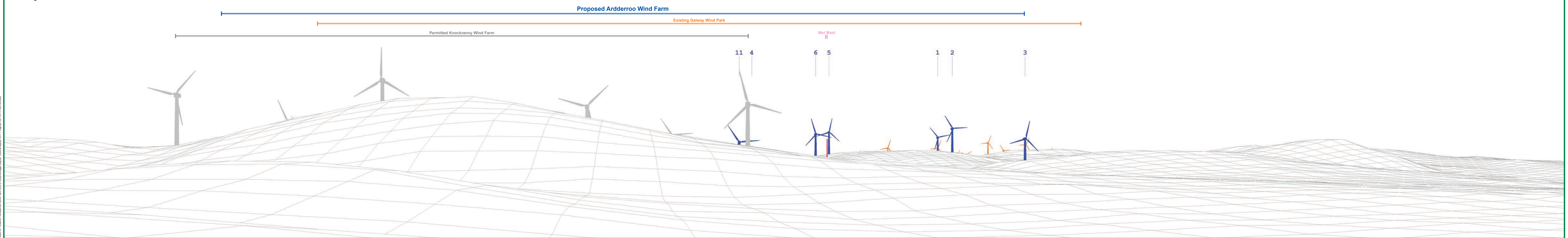
53.5-Degree View Extent



Matching wireframe



160815 - Ennio - Ardara Wind Farm ES (Photomontage Layout Turbine Layout V0 - Turbine V0 - 01-11-2018.rvt)



0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative

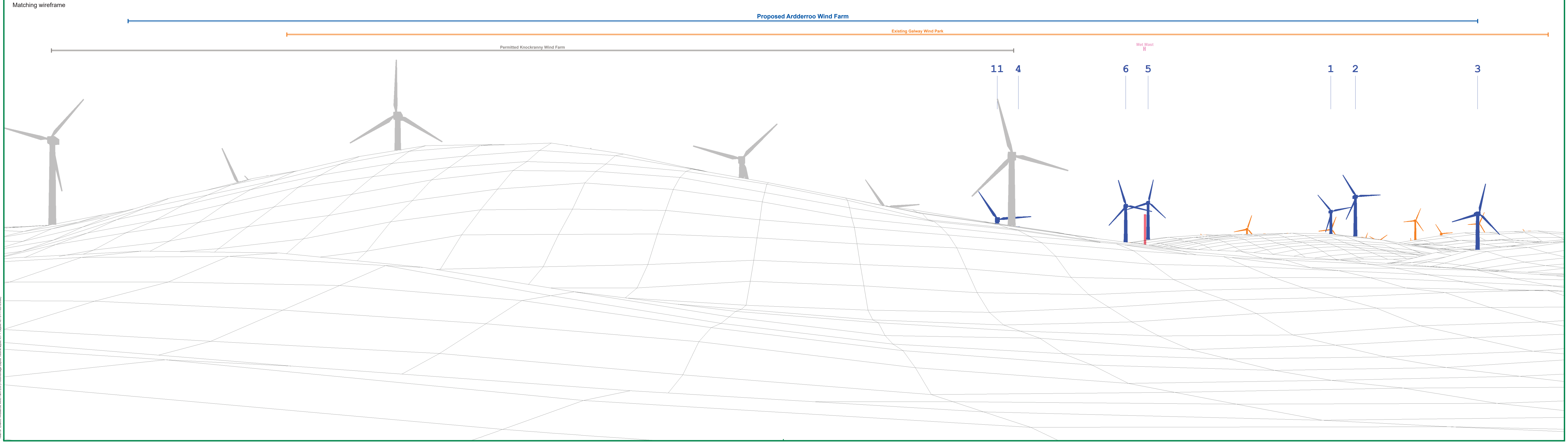


160815 - E-meco - Ardara - Wind Farm EIS Photomontage Layout - T1 Layout V16 - 01-11-2018 (400)

242° Direction (Degrees)

270°

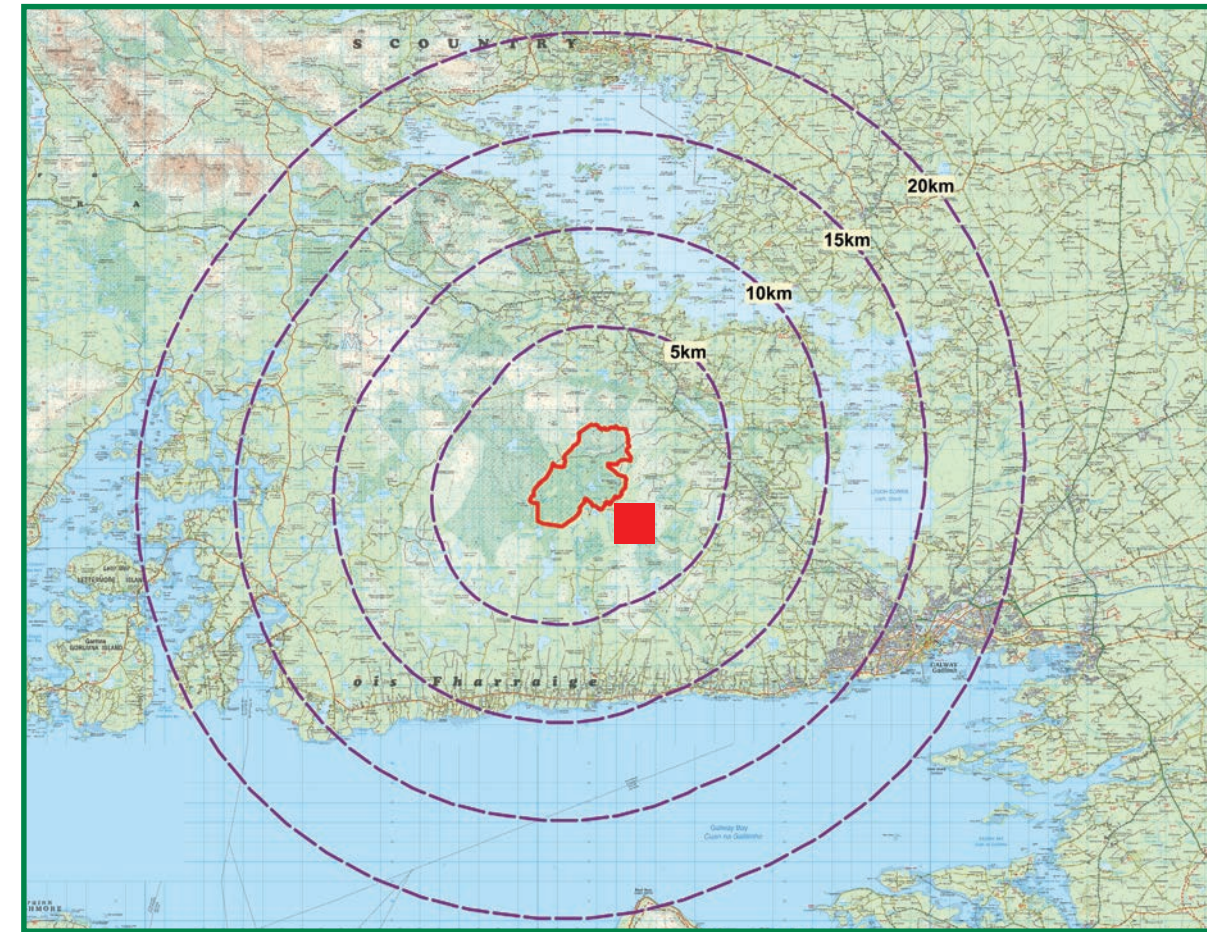
296°



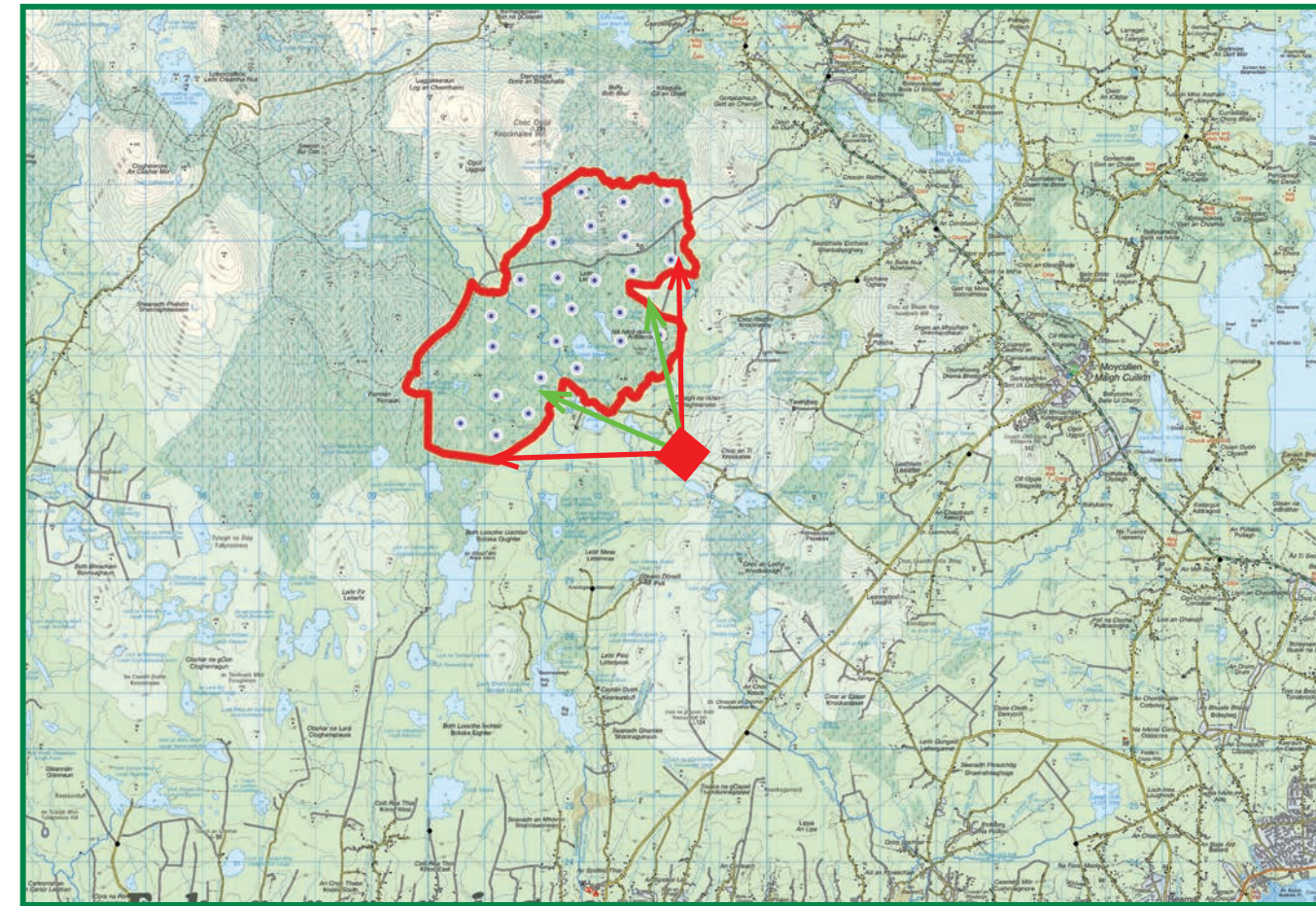
Photomontage 15

View Point: View from the local road in the townland of Slieveaneena, approximately 2.15 kilometres to the southeast of the nearest turbine.

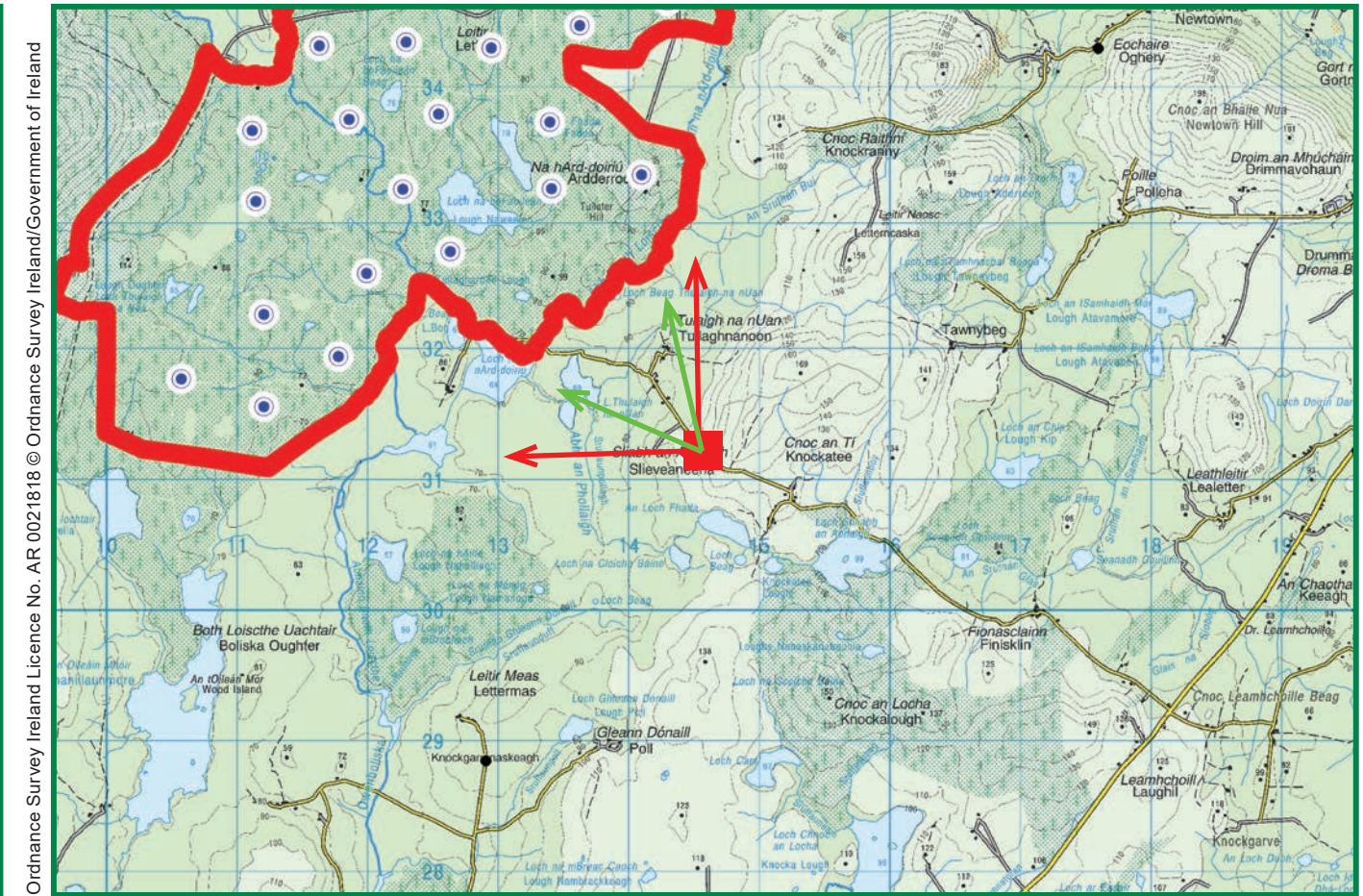
View point grid reference	114,553(E); 231,245(N)
Date of image taken	28.6.2028
Time of image taken	2:16pm
View point elevation	112m
Angle of View	90°
View Direction (Image Centre)	315°
Horizontal extent of proposed turbines	90°
Distance to nearest proposed turbine	2.15km (T22)
Number of proposed turbines visible	26/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
Map Licence	©Copyright of Ordnance Survey Ireland. All Rights Reserved; License No: AR0021818



View point 15 relative to 20km radius.



View point 15 relative to wind farm site (core boundary outlined in red).



Detail of view point 15 location.

Map Legend

Area shown in 90-degree view



Area shown in 53.5-degree view



View point



Site Boundary



Prepared by

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Website: www.mccarthykos.ie

90-Degree View Extent

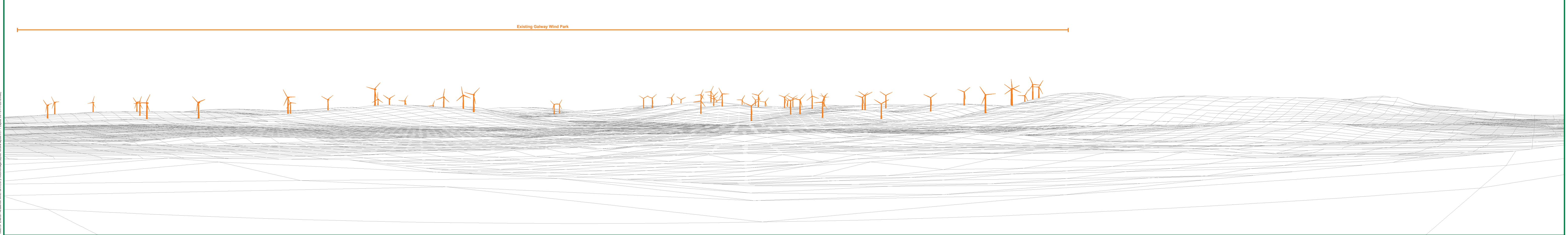
Key image at 90 degrees

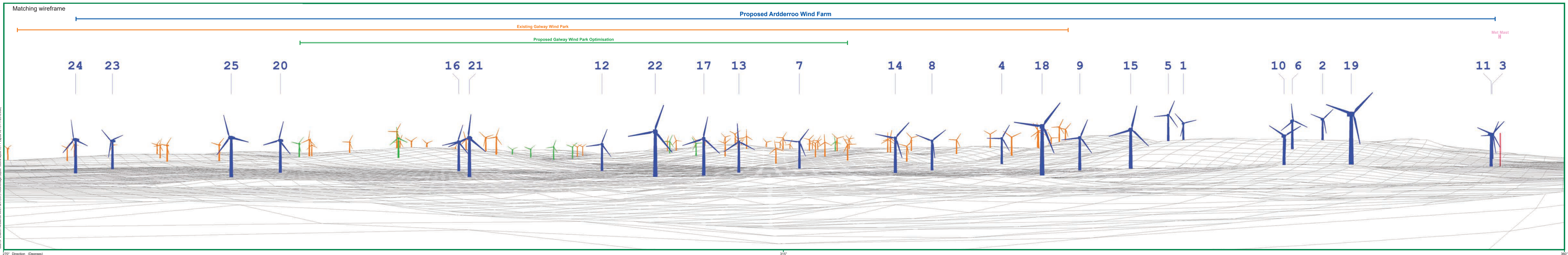


53.5-Degree View Extent



Matching wireframe





0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



288° Direction (Degrees)

315°

342°

160815 - E-meco - Ardennes Wind Farm EIS Photomontage Layout - 01-10-2018 (1608)

0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Existing Galway Wind Park

Proposed Ardderroo Wind Farm

Proposed Galway Wind Park Optimisation

16 21

12

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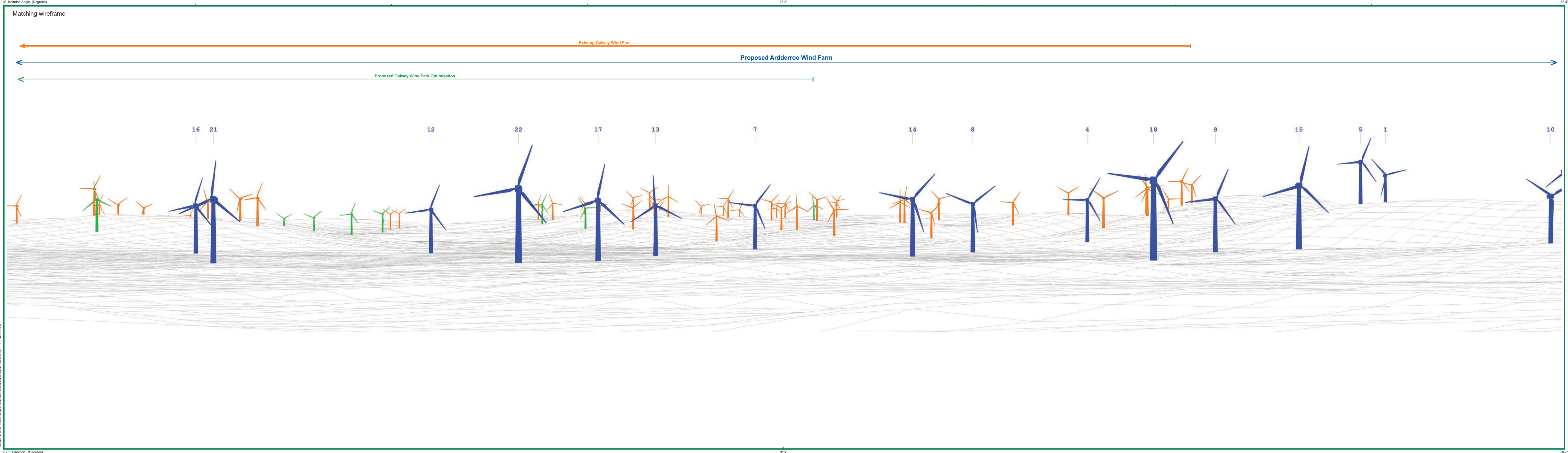
10

16915 - Eirias - Ardderroo Wind Farm ES (Photomontage Layout V5 - 01-10-2018.rvt)

288° Direction (Degrees)

315°

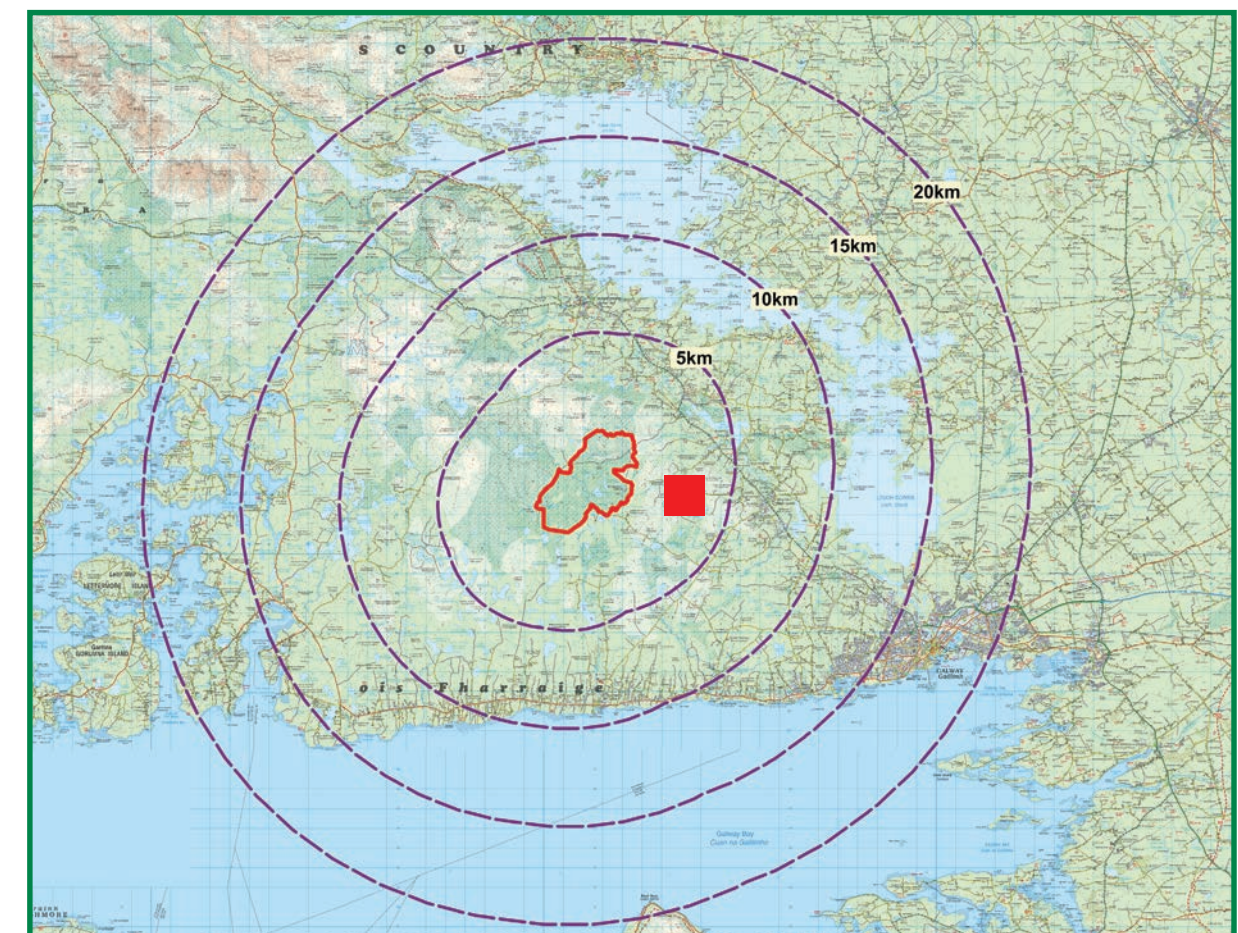
342°



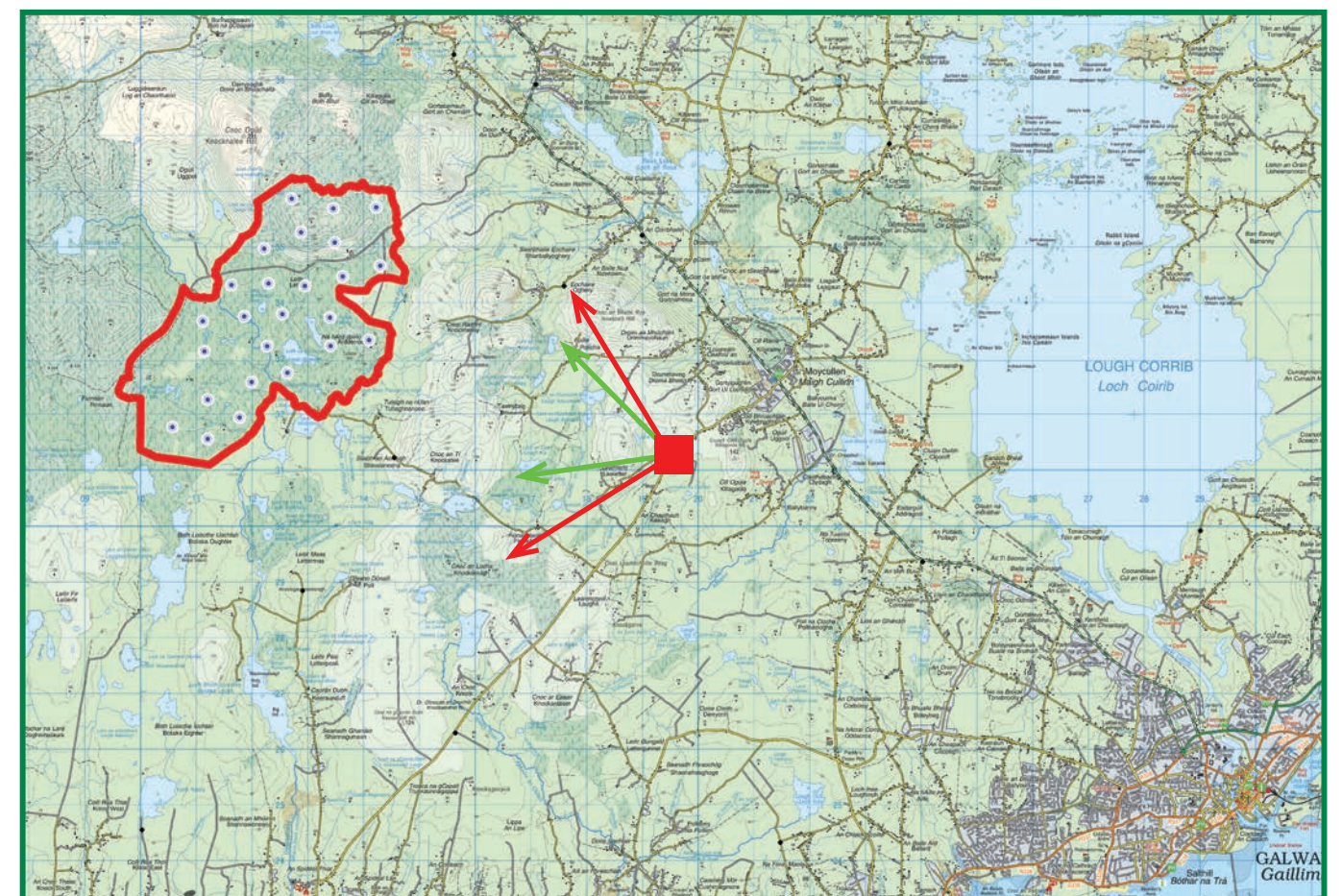
Photomontage 16

View Point: View from the local road in the townland of Keeagh, approximately 5.85 kilometres southeast of the nearest turbine.

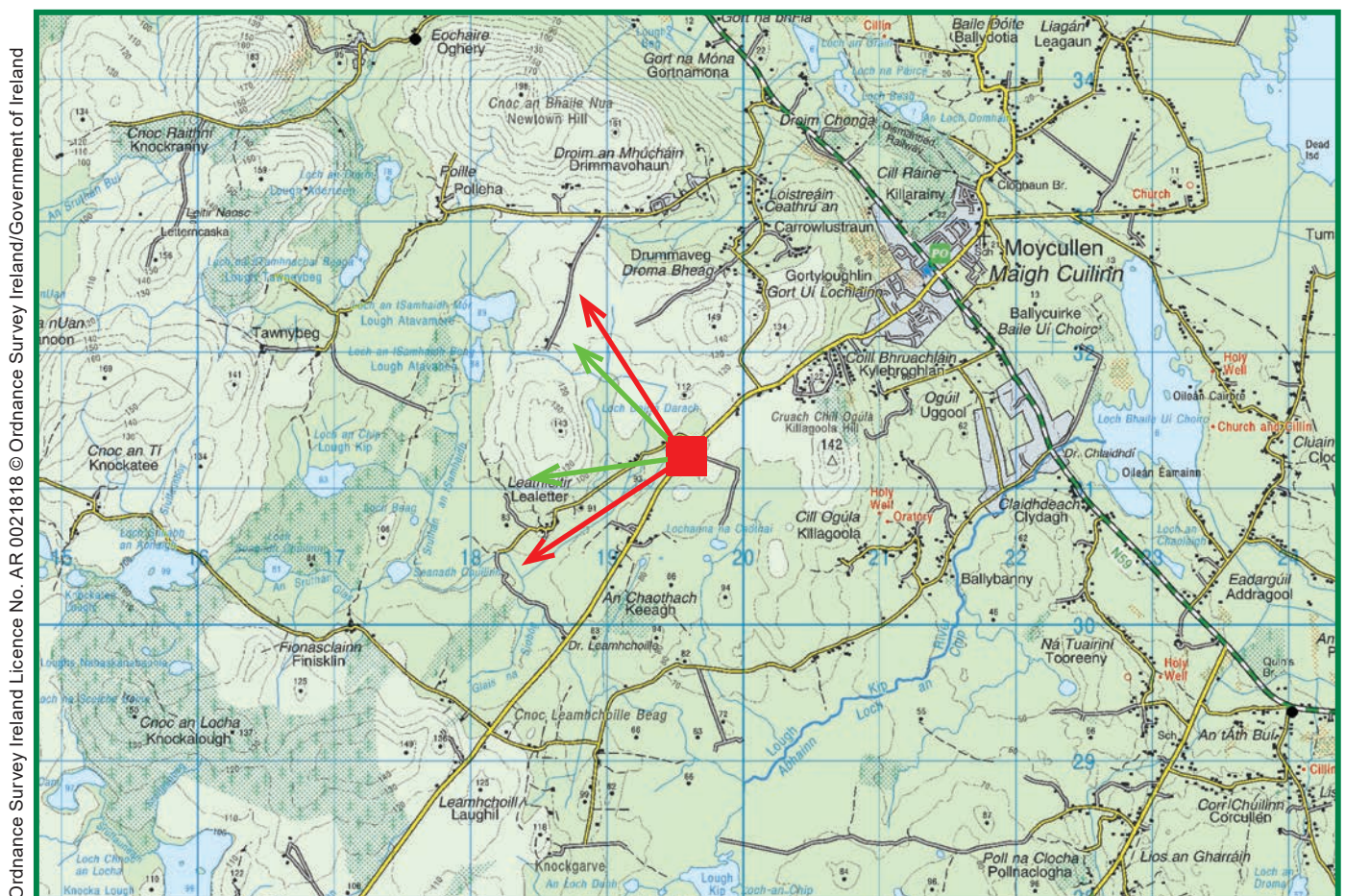
View point grid reference	119,565(E); 231,237(N)
Date of image taken	28.06.2018
Time of image taken	1:07am
View point elevation	97m
Angle of View	90°
View Direction (Image Centre)	188°
Horizontal extent of proposed turbines	38°
Distance to nearest proposed turbine	5.85km (T18)
Number of proposed turbines visible	8/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 16 relative to 20km radius.



View point 16 relative to wind farm site (core boundary outlined in red).



Detail of view point 16 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

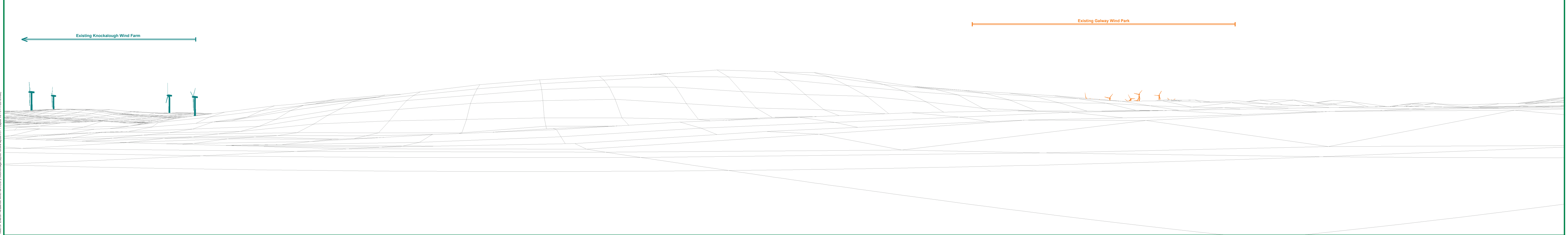
Key image at 90 degrees



53.5-Degree View Extent



Matching wireframe

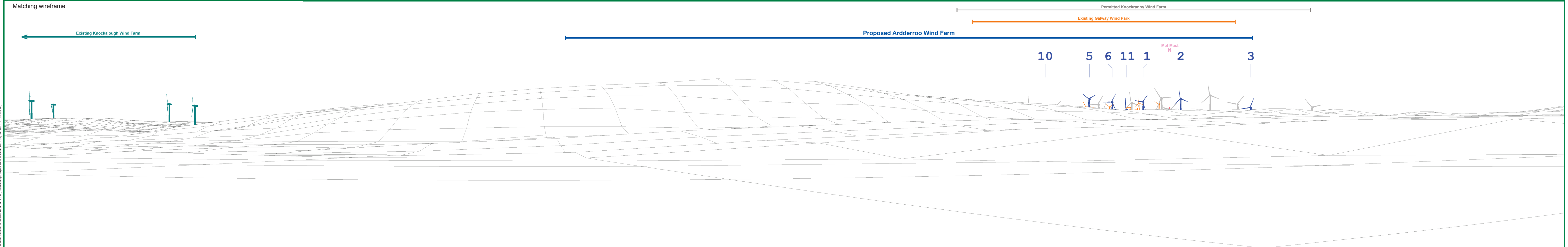


160815 - Enniscorthy Wind Farm EIS (Photomontage) Layout - Turbine Layout (V2) - Turbine V2 - 01-11-2018.rvt

Cumulative photomontage 90 Degrees



Matching wireframe



Proposed Photomontage at 53.5 degrees with Cumulative



160815 - E-memo - Ardara - Ardara Wind Farm EIS Photomontage Layout Tables Input 03 - T Layout V01.01 (11/2018) (4/0)

0° Included Angle (Degrees)

26.5°

53.4°

Matching wireframe

Proposed Arderroo Wind Farm

Existing Galway Wind Park

Permitted Knockranny Wind Farm

Met Mast

10

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11

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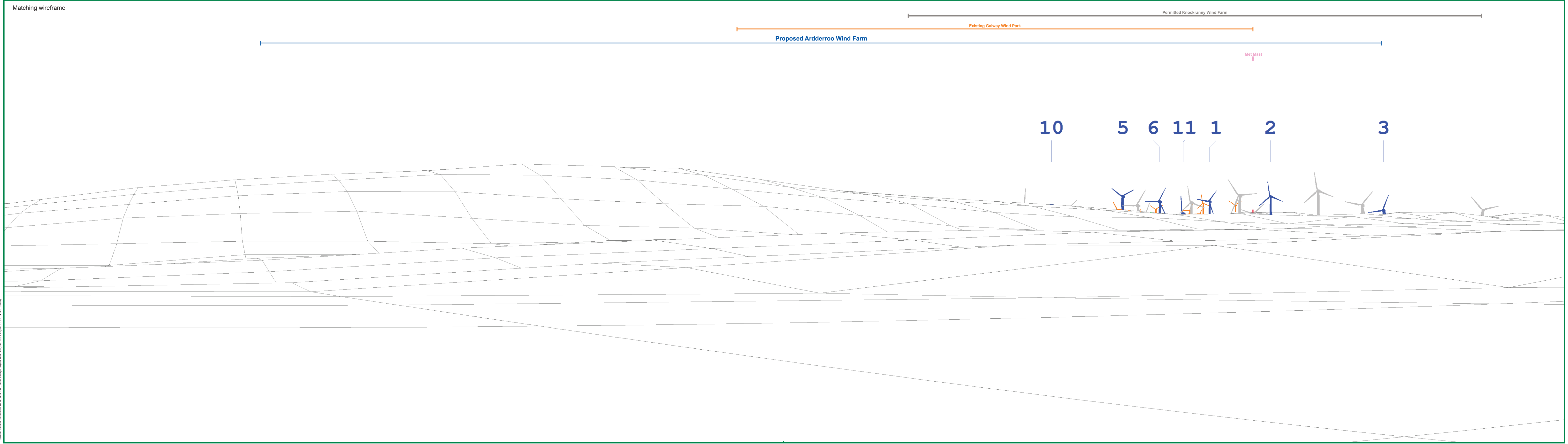
3

169615 - Eirias - Arderroo Wind Farm ES Photovoltaic Layout V5 - T Layout V8 - 01-11-2018.indd

261° Direction (Degrees)

289°

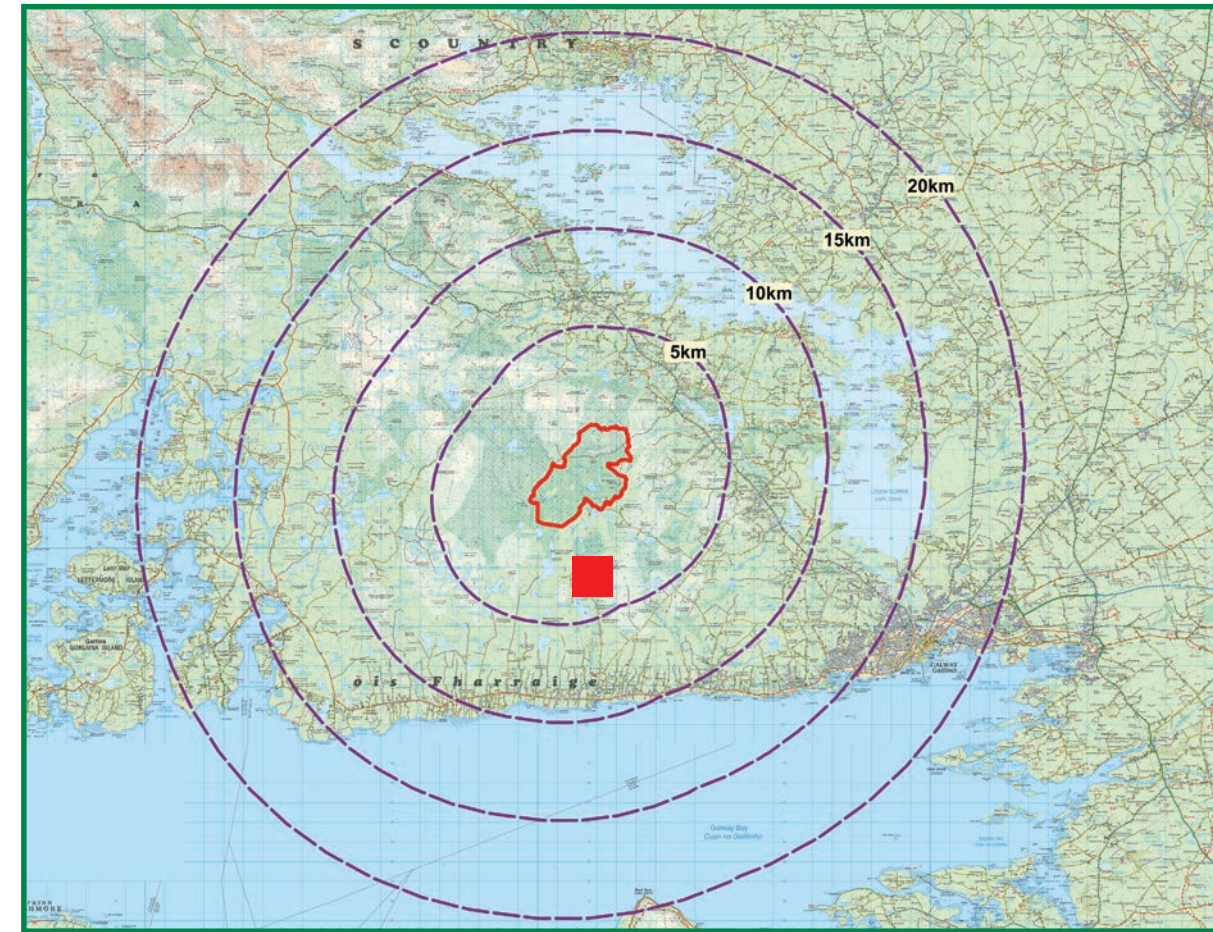
315°



Photomontage 17

View Point: View from the local road in the townland of Lettermas, approximately 3.19 kilometres southeast of the nearest turbine.

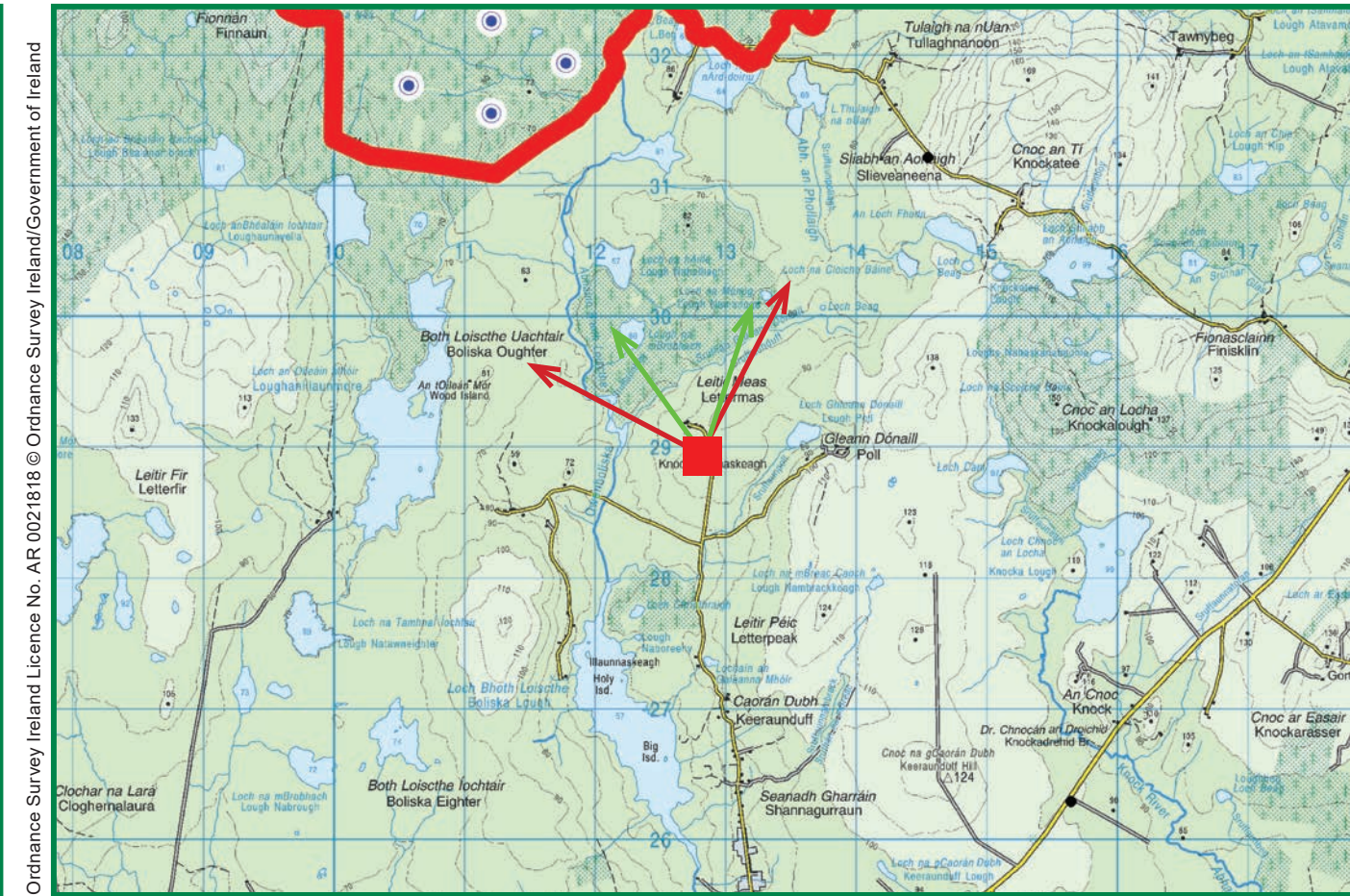
View point grid reference	112,903(E); 228,876(N)
Date of image taken	28.06.2018
Time of image taken	3.08pm
View point elevation	85m
Angle of View	90°
View Direction (Image Centre)	348°
Horizontal extent of proposed turbines	56°
Distance to nearest proposed turbine	3.1km (T24)
Number of proposed turbines visible	23/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 17 relative to 20km radius.



View point 17 relative to wind farm site (core boundary outlined in red).



Detail of view point 17 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

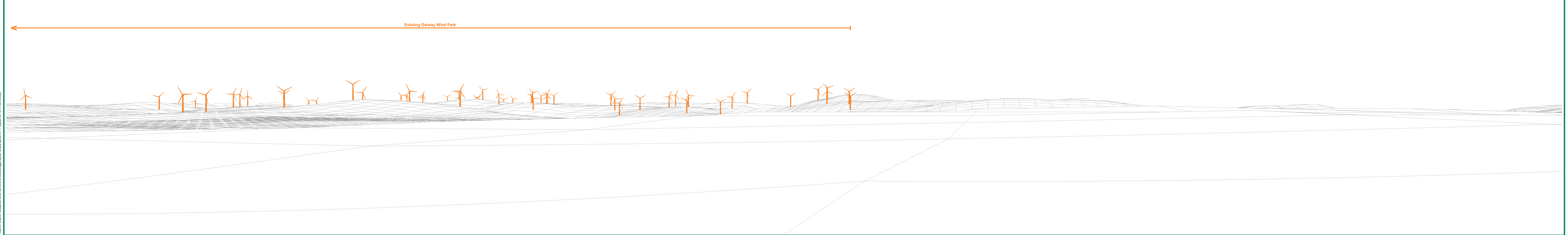
Key image at 90 degrees



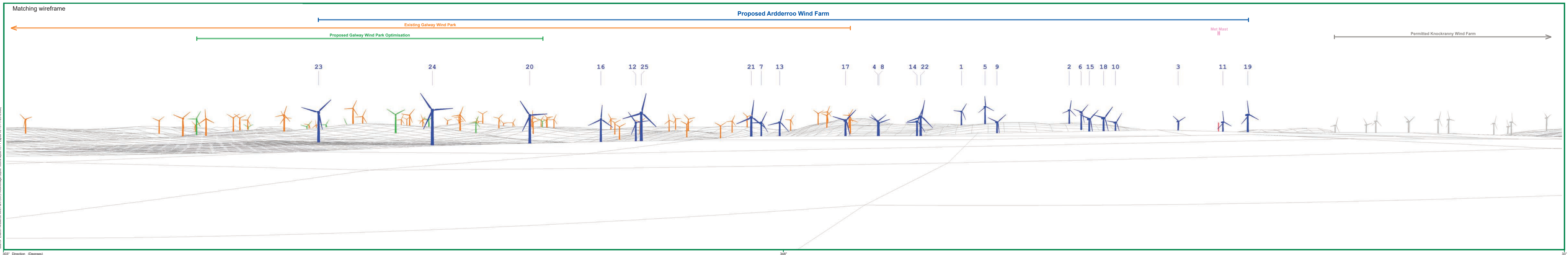
53.5-Degree View Extent



Matching wireframe



16081 E. Emery - Ardaraire Wind Farm EIS (Photomontage Layout - Turbine Layout V6 - Turbine V6 - 01-2018.rvt)



160615 - Ardderroo Wind Farm ES (Photomontage Layout Tagged V5 - T Layout V8 - 01-11-2018.indd)

0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



160815 - E-meco - Ardara Wind Farm EIS Photomontage Layout Tables Input 03 - 1 Layout V16.0 (11/2018) (A03)

319° Direction (Degrees)

340°

13°

Matching wireframe

Proposed Ardderroo Wind Farm

Existing Galway Wind Park

Proposed Galway Wind Park Optimisation

Met Mast

23

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12 25

21 7

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4 8

14 22

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5 9

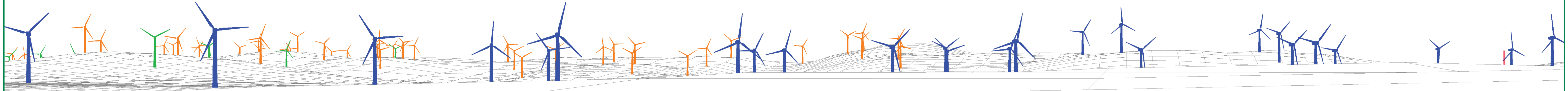
2

6 15 18 10

3

11

19



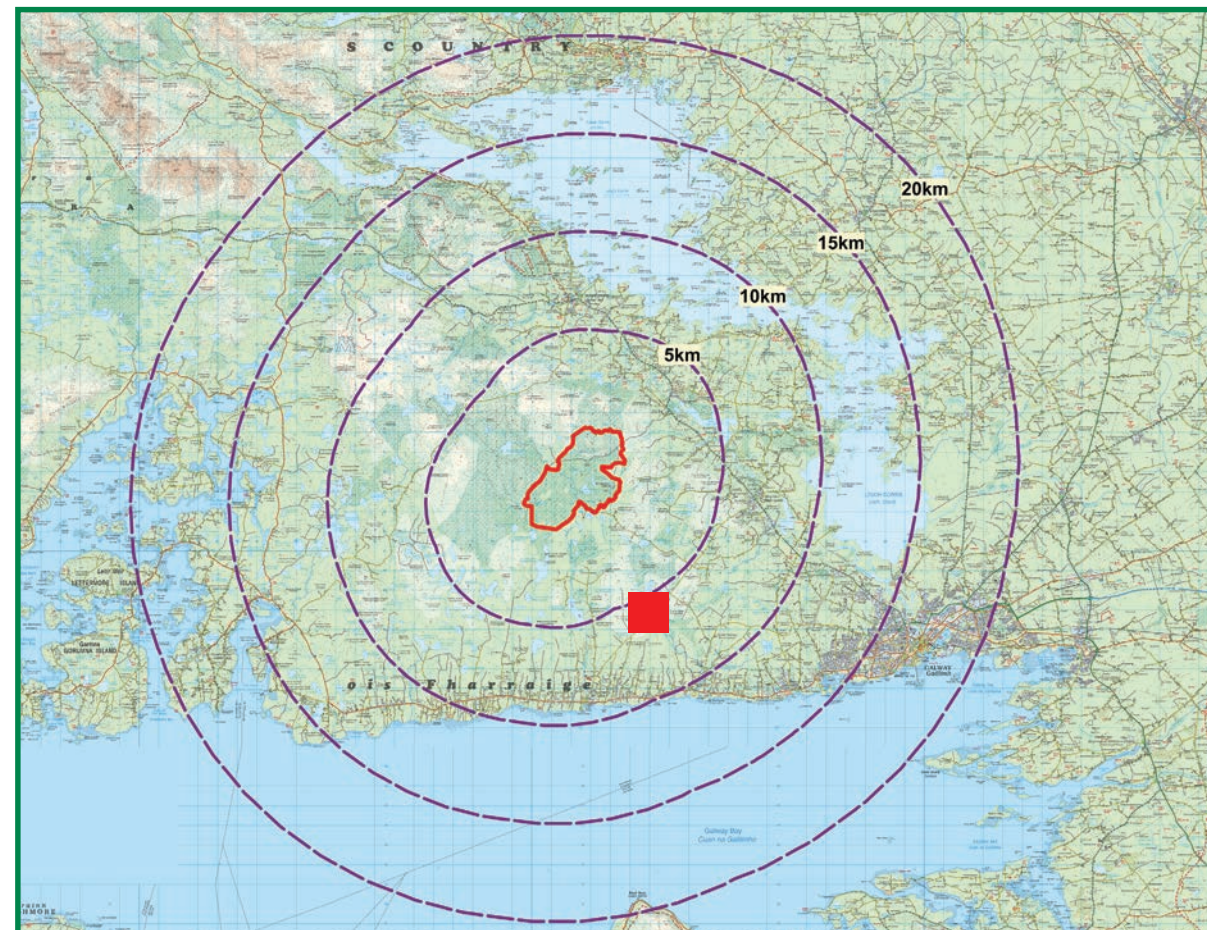
View Point 18

Knock

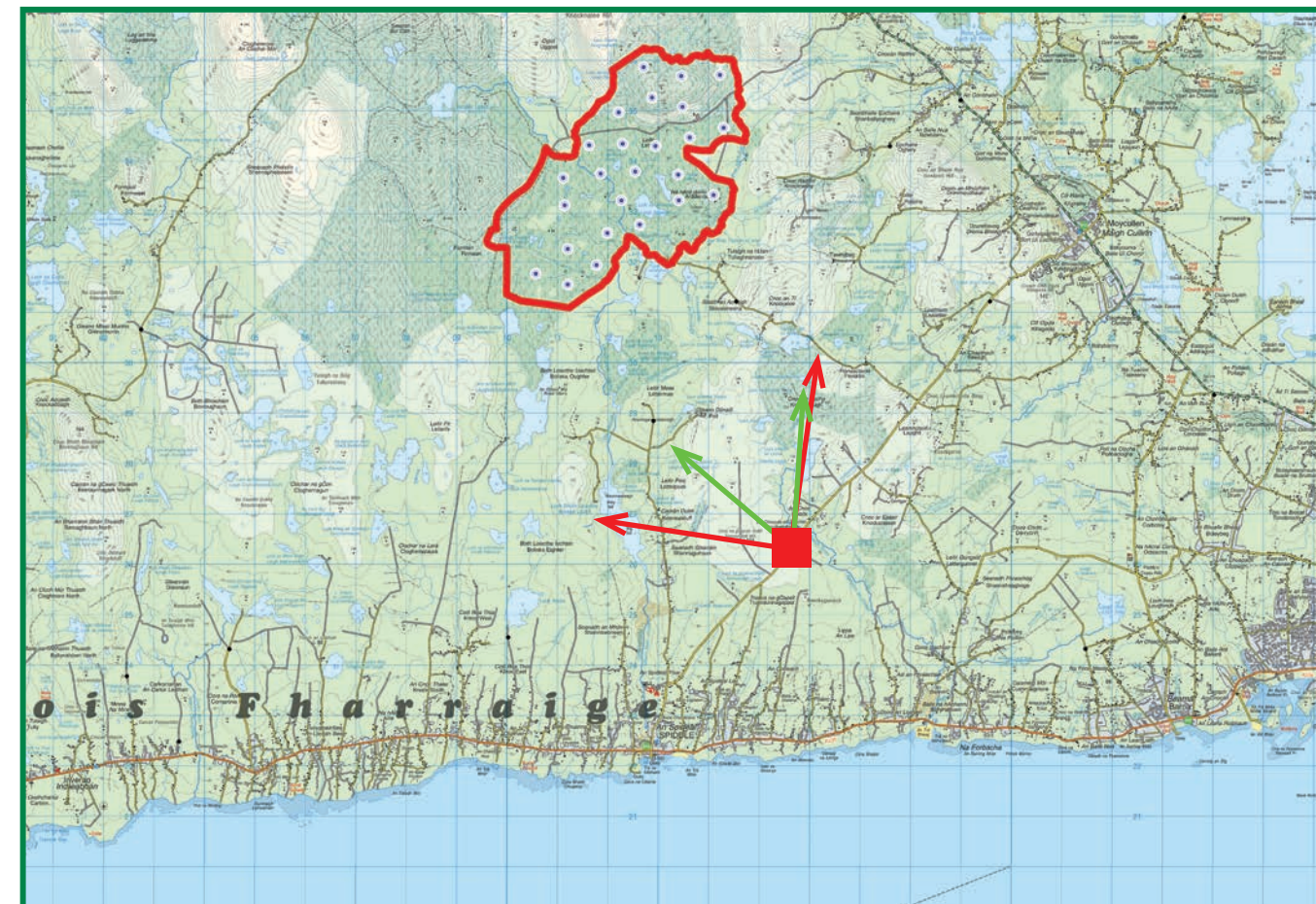
Photomontage 18

View Point: View from the local road in the townland of Knock, approximately 6.85 kilometres southeast of the nearest turbine.

View point grid reference	115,639(E); 226,318(N)
Date of image taken	28.06.2018
Time of image taken	14.42pm
View point elevation	97m
Angle of View	170°
View Direction (Image Centre)	333°
Horizontal extent of proposed turbines	32°
Distance to nearest proposed turbine	6.85km (T25)
Number of proposed turbines visible	24/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 18 relative to 20km radius.



View point 18 relative to wind farm site (core boundary outlined in red).



Detail of view point 18 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

Prepared by

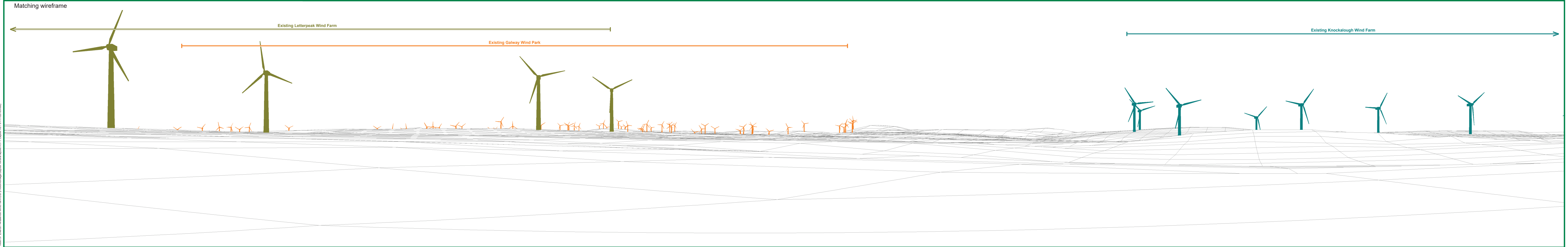
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 E-mail: info@mccarthykos.ie
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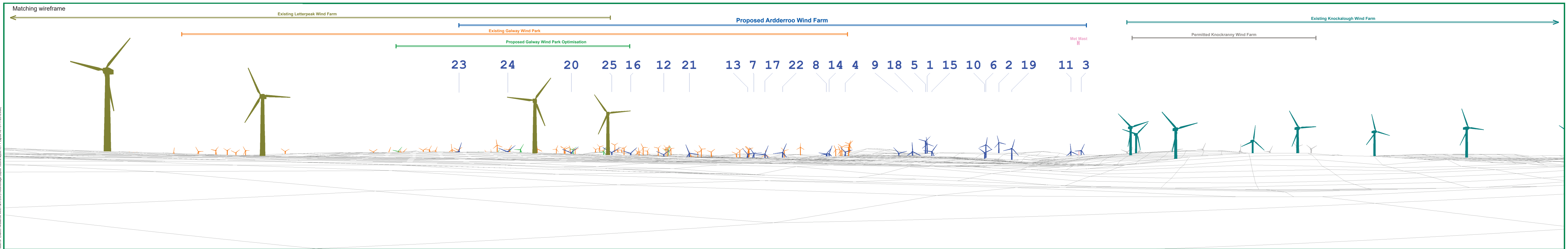
90-Degree View Extent

Key image at 90 degrees



53.5-Degree View Extent





0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative



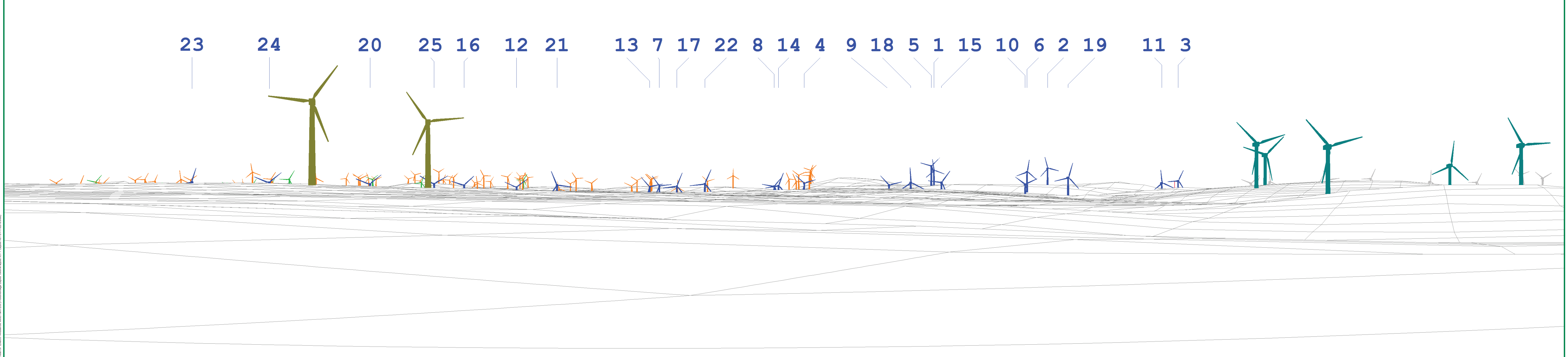
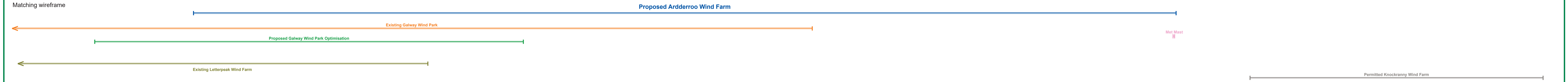
160815 - Emeco - Ardennes Wind Farm EIS Photomontage Layout - T_Layer_V01_V01_011_2018.mxd

313° Direction (Degrees)

340°

7

0° Included Angle (Degrees) 26.5° 53.4°



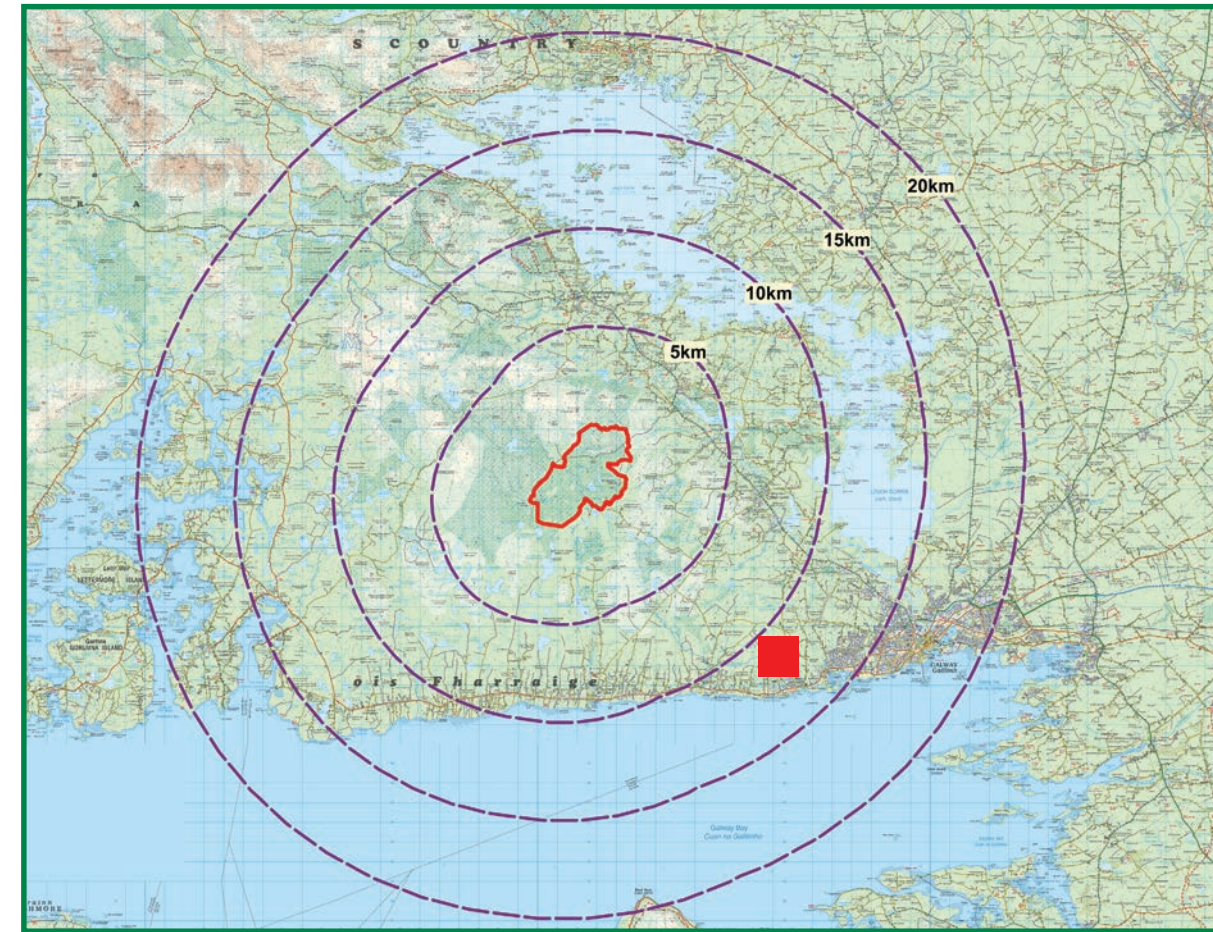
313° Direction (Degrees) 340° 7°

16915 - Eirias - Ardderroo Wind Farm EIS Photomontage Layout - T1 Layout V8 - 01-11-2018.indd

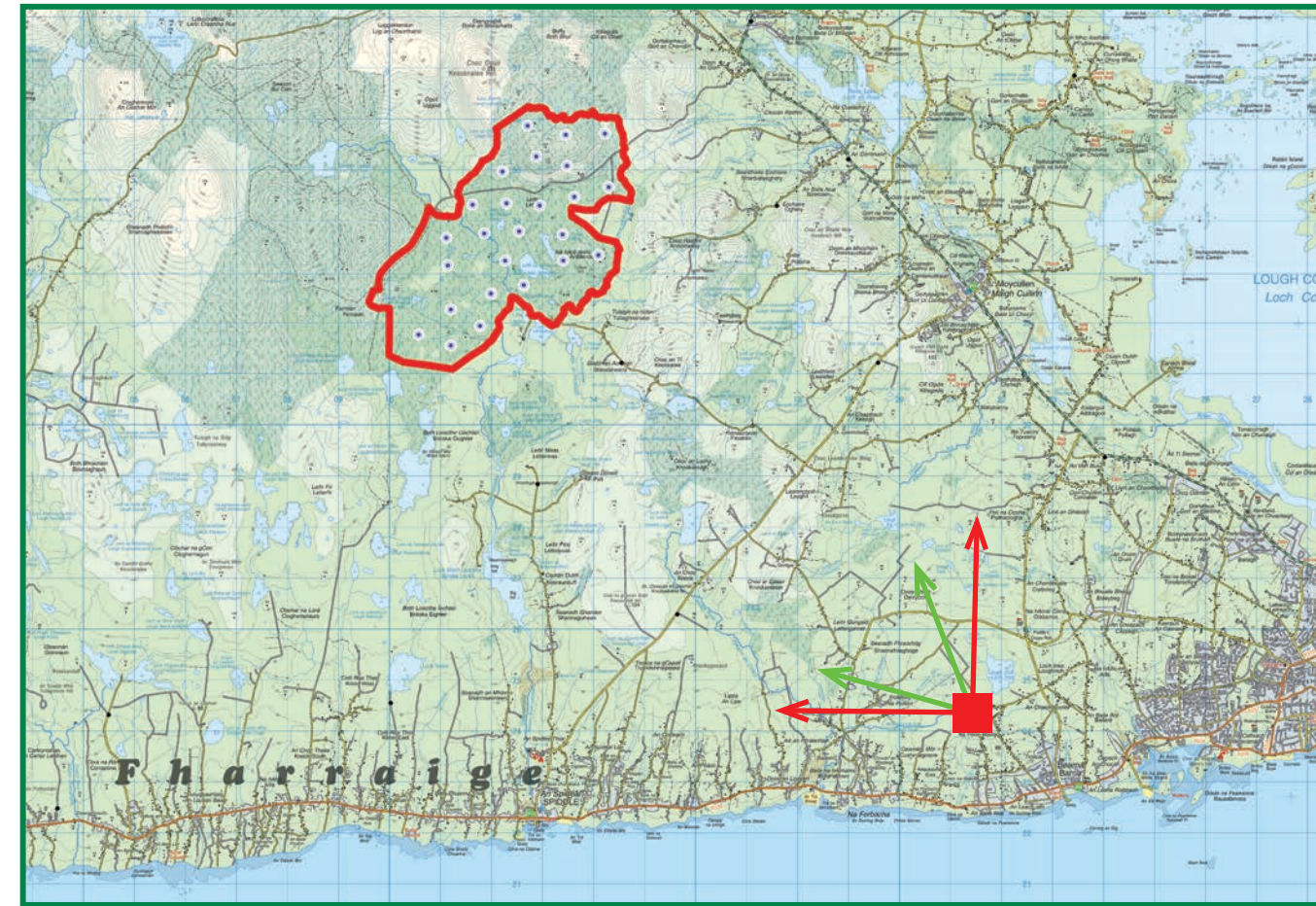
Photomontage 19

View Point: View from the local road in the townland of Foramoyle West, approximately 11.65 kilometres southeast of the nearest turbine.

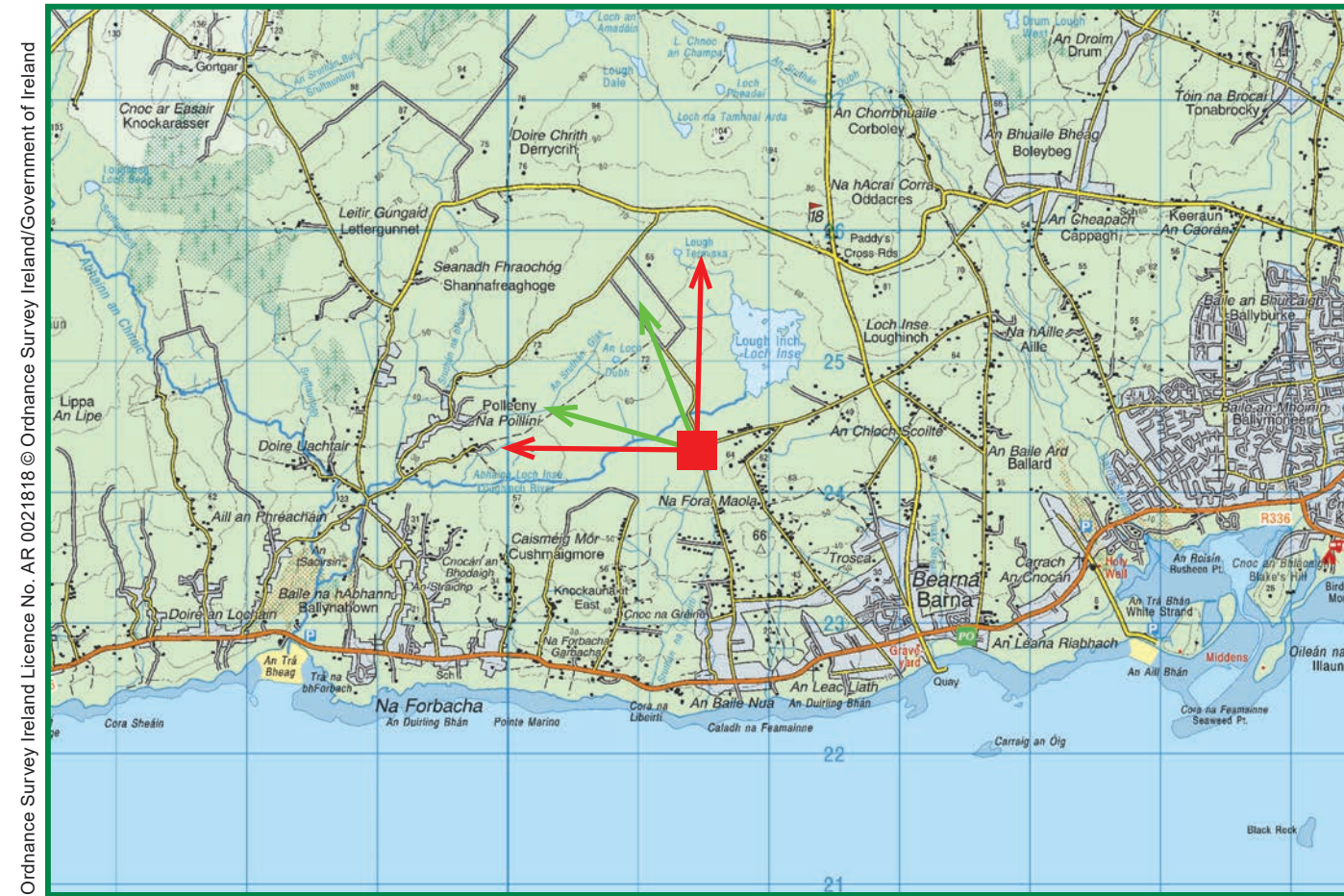
View point grid reference	121,483(E); 224,347(N)
Date of image taken	28.06.2018
Time of image taken	3.49pm
View point elevation	54m
Angle of View	90°
View Direction (Image Centre)	314°
Horizontal extent of proposed turbines	23°
Distance to nearest proposed turbine	11.65km (T18)
Number of proposed turbines visible	7/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 19 relative to 20km radius.



View point 19 relative to wind farm site (core boundary outlined in red).



Detail of view point 19 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

Prepared by

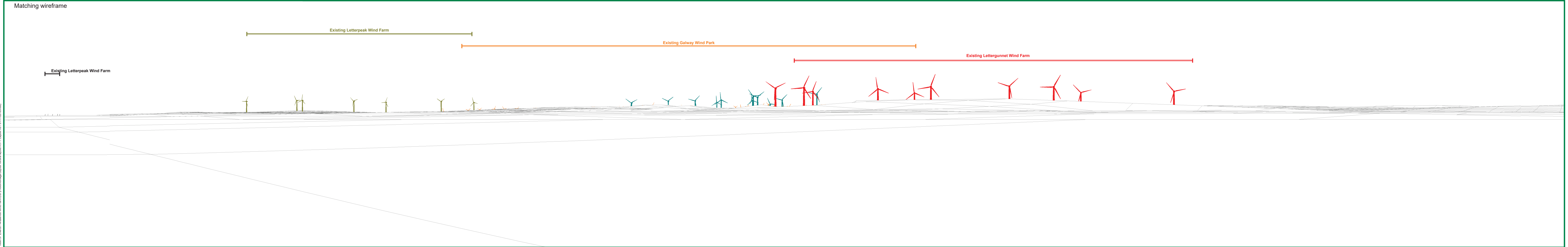
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Moneenageisha Road, Galway.
Tel: (091) 73 56 11
E-mail: info@mccarthykos.ie
Website: www.mccarthykos.ie

90-Degree View Extent

Key image at 90 degrees

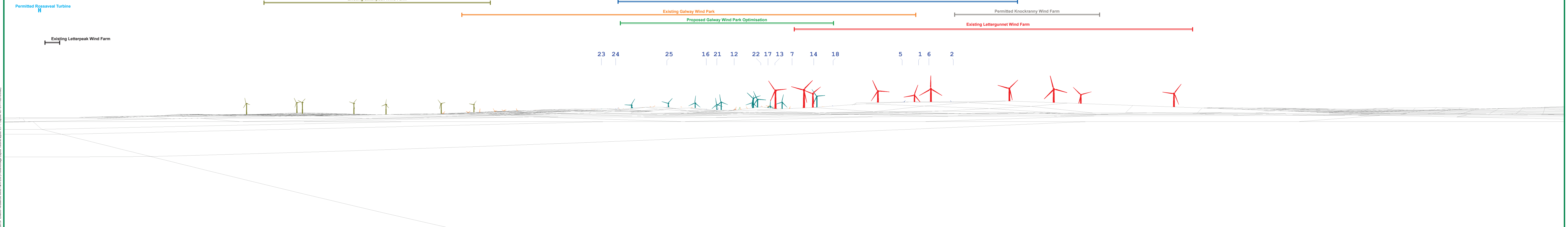


53.5-Degree View Extent





Matching wireframe



0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative

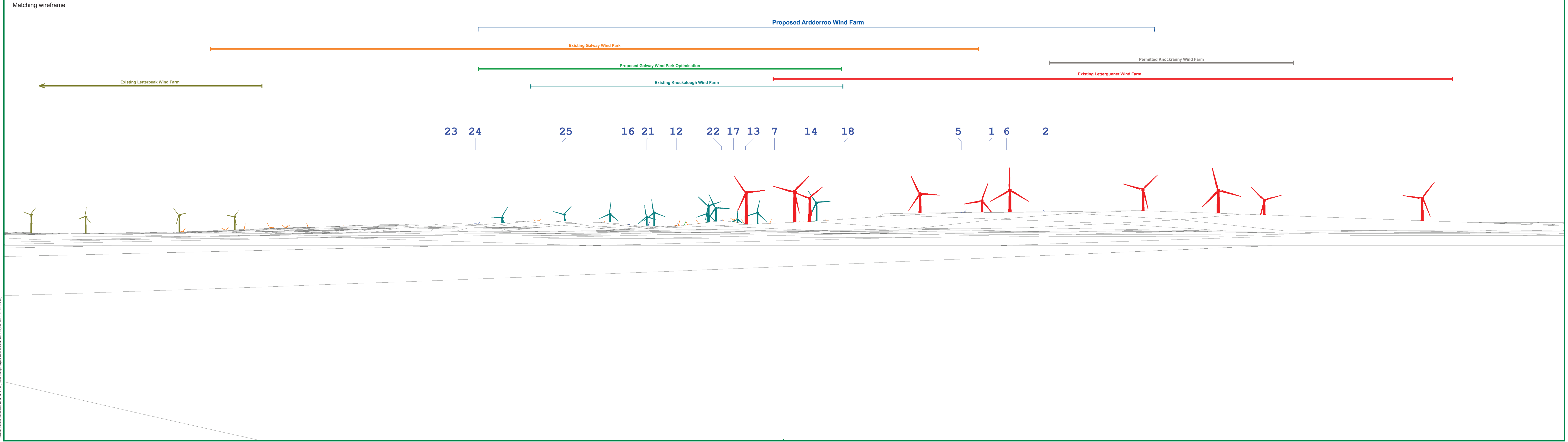


288° Direction (Degrees)

310°

342°

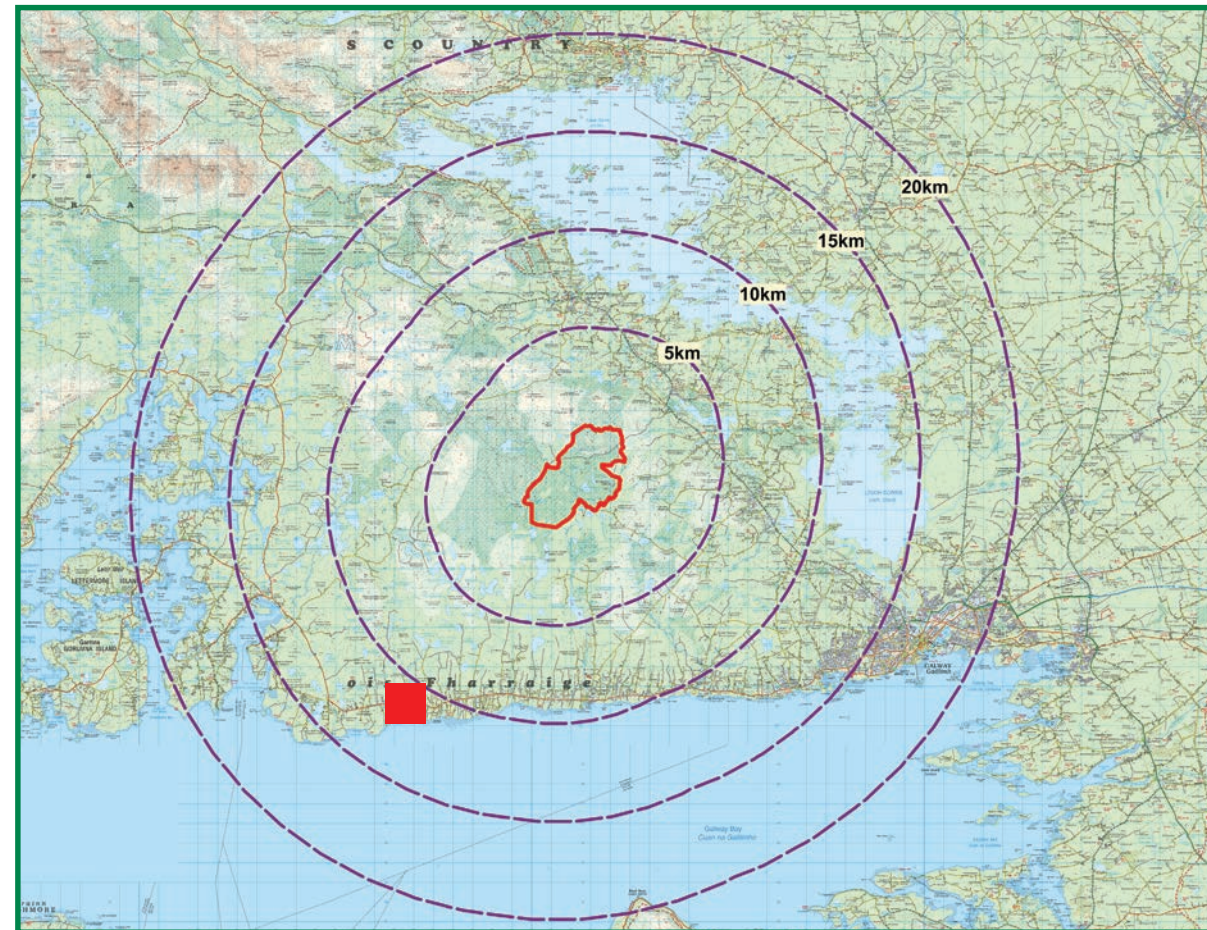
160815 - E:\mca - Ardara - Wind Farm EIS Photomontage Layout Tables Input V3 - T1 Layout V16 - 01-11-2018.mxd



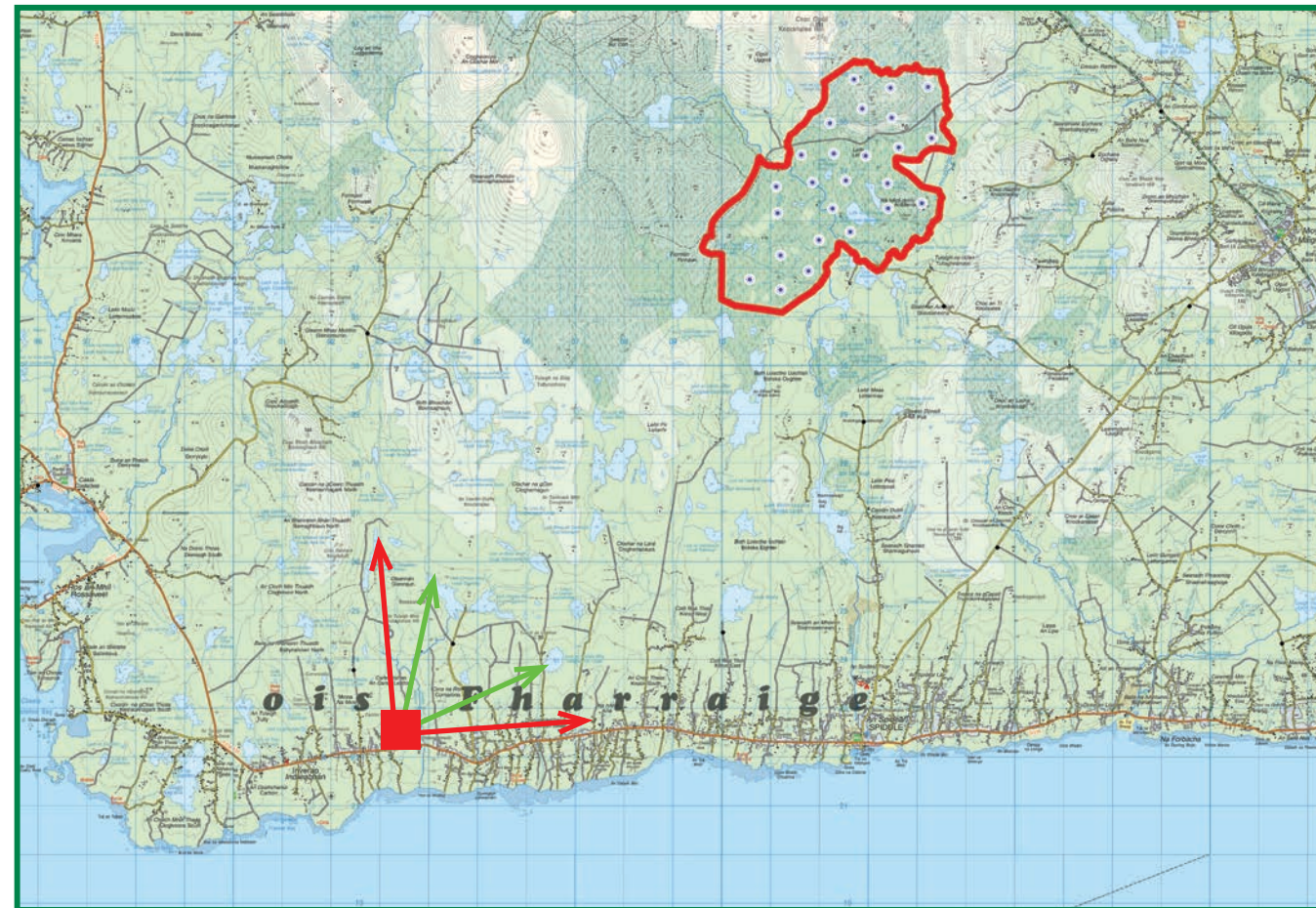
Photomontage 20

View Point: View from the local road (off the R336) in the townland of Cartronlahan, approximately 11.66km southeast of the nearest turbine.

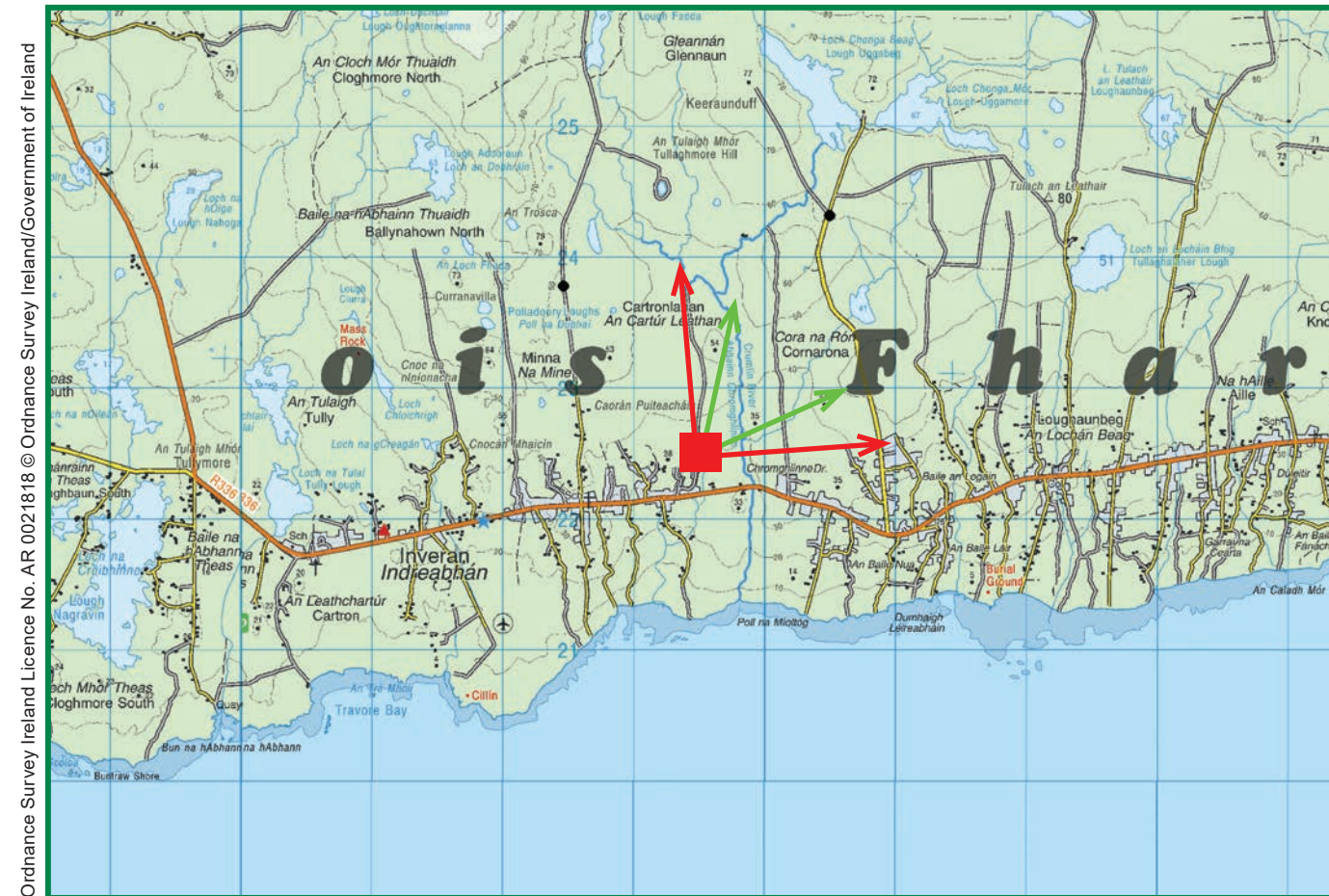
View point grid reference	103,493(E); 222,517(N)
Date of image taken	28.06.2018
Time of image taken	4.28pm
View point elevation	33m
Angle of View	90°
View Direction (Image Centre)	40°
Horizontal extent of proposed turbines	11°
Distance to nearest proposed turbine	11.6km (T25)
Number of proposed turbines visible	0/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 20 relative to 20km radius.



View point 20 relative to wind farm site (core boundary outlined in red).



Detail of view point 20 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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 Website: www.mccarthykos.ie

90-Degree View Extent

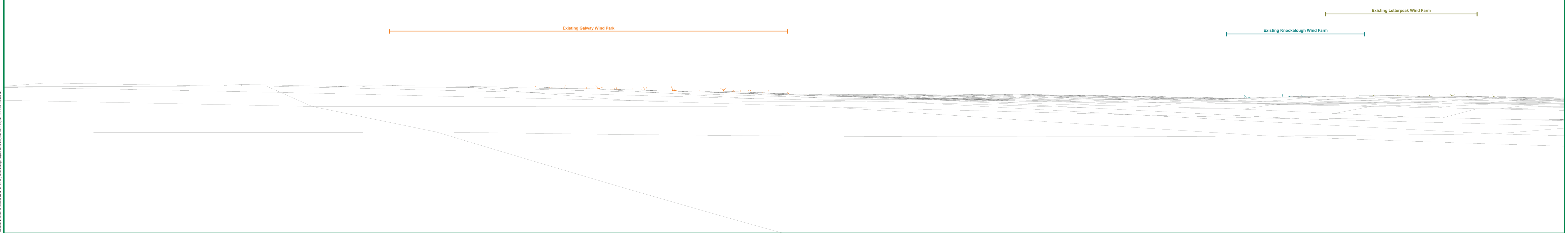
Key image at 90 degrees



53.5-Degree View Extent



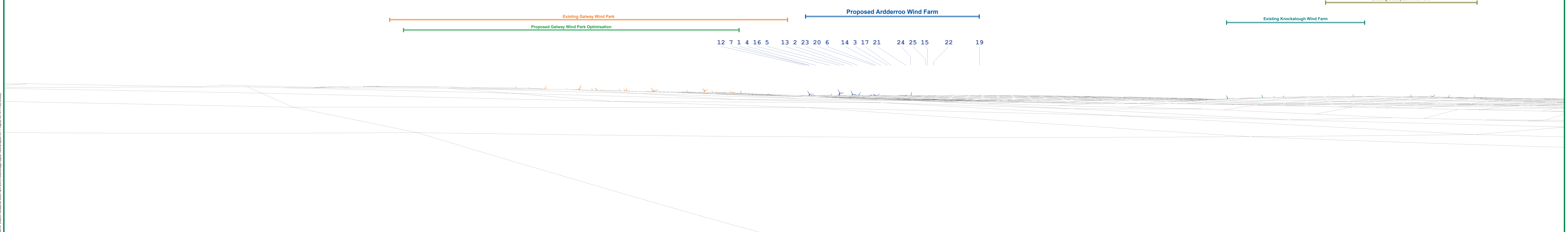
Matching wireframe



16081 E. Emery - Ardara Wind Farm EIS (Photomontage Layout Turbine Layout V5 - Turbine V5 - 01-11-2018.rvt)



Matching wireframe



Proposed Photomontage at 53.5 degrees with Cumulative



0° Included Angle (Degrees)

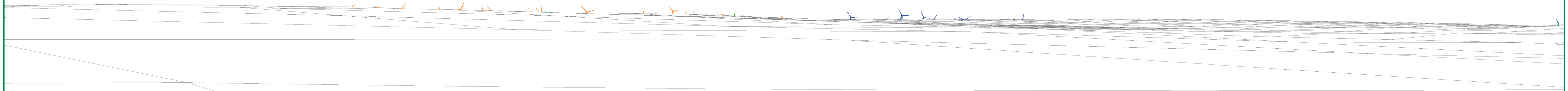
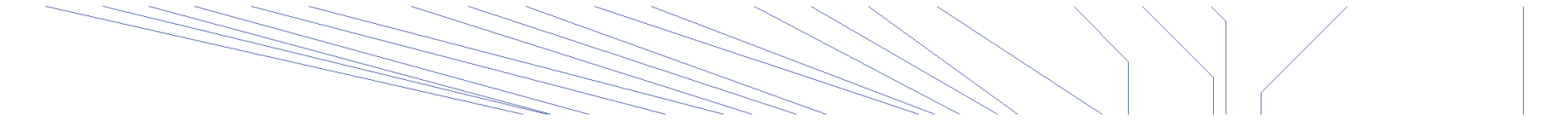
26.5°

53.4°

Matching wireframe



12 7 1 4 16 5 13 2 23 20 6 14 3 17 21 24 25 15 22 19



169615 - Eirias - Ardderroo Wind Farm EIS Photomontage Layout Turbine Layout V5 - T1 Layout V8 - 01-11-2018.indd

354° Direction (Degrees)

39°

84

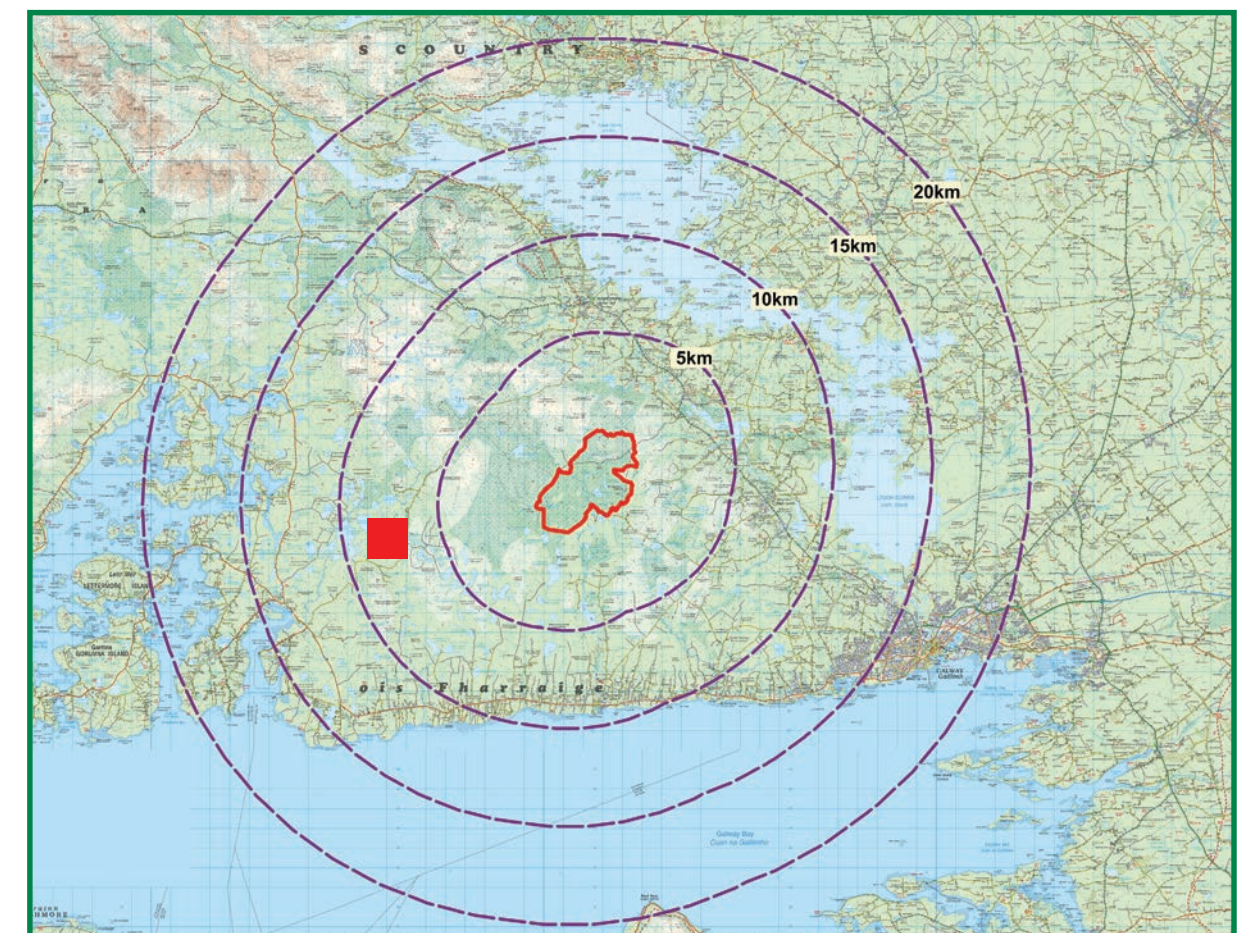
View Point 21

Glenicmurrin

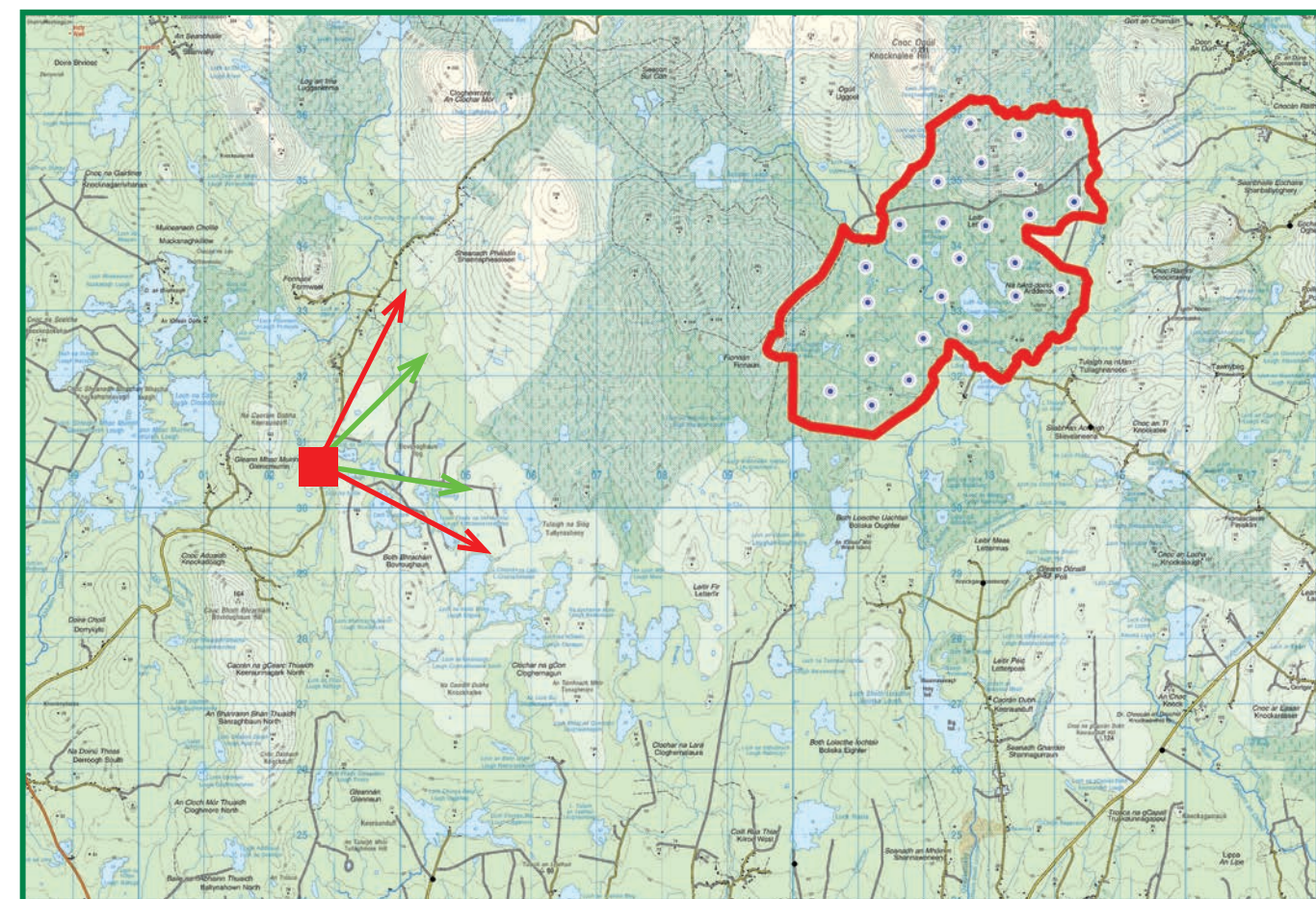
Photomontage 21

View Point: View from the local road in the townland of Glenicmurrin, approximately 7.87 kilometres southwest of the nearest turbine.

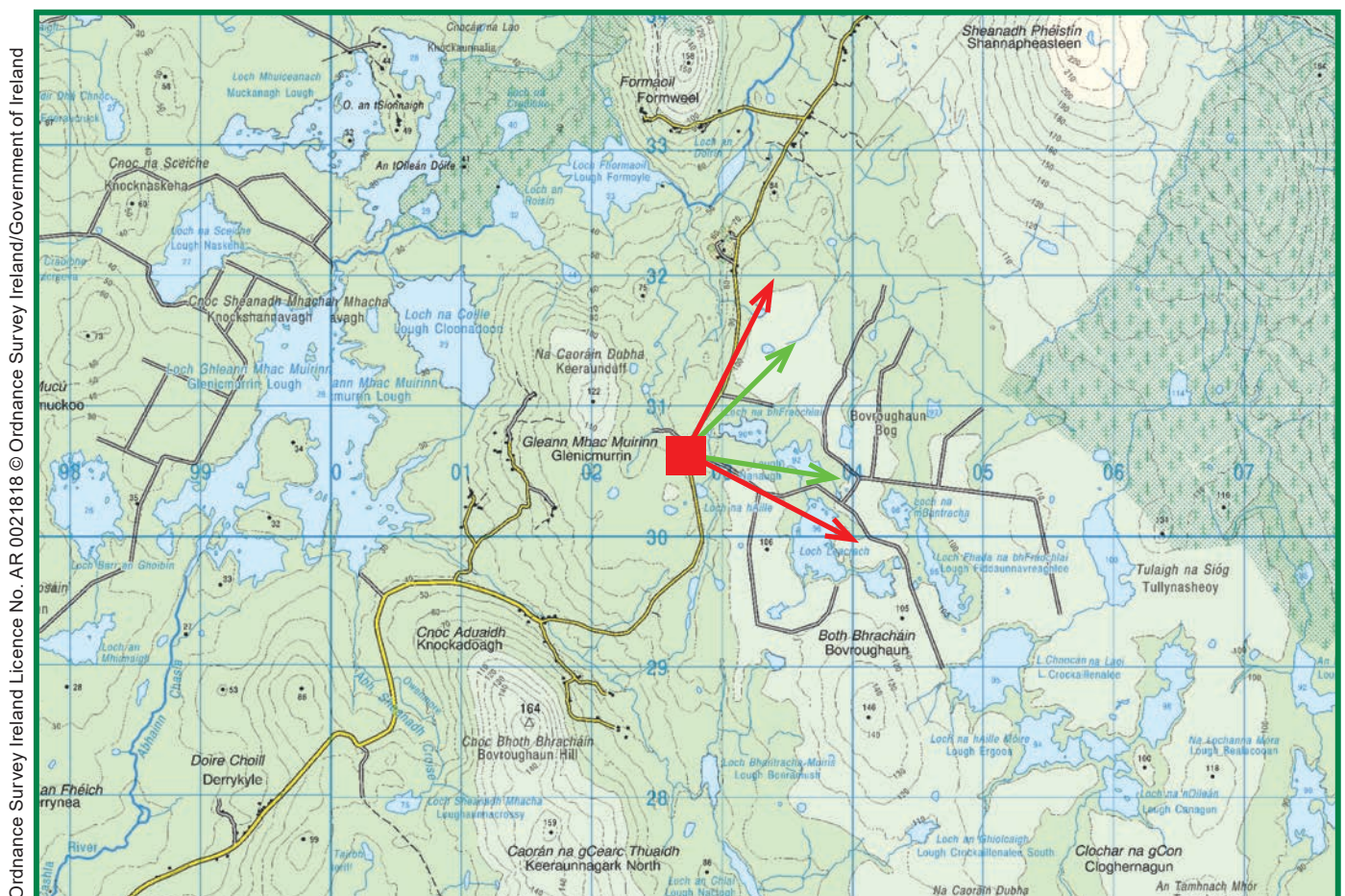
View point grid reference	102,745(E); 230,697(N)
Date of image taken	28.06.2018
Time of image taken	5:16pm
View point elevation	90m
Angle of View	90°
View Direction (Image Centre)	72°
Horizontal extent of proposed turbines	21°
Distance to nearest proposed turbine	7.8km (T25)
Number of proposed turbines visible	15/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point 21 relative to 20km radius.



View point 21 relative to wind farm site (core boundary outlined in red).



Detail of view point 21 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

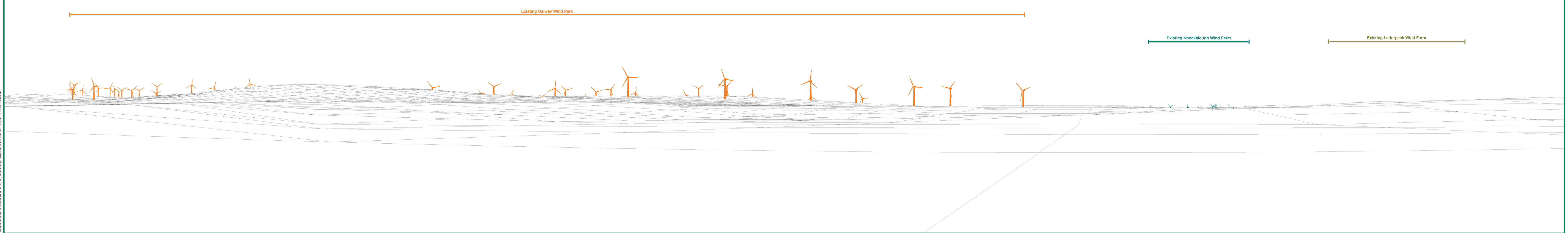
Key image at 90 degrees

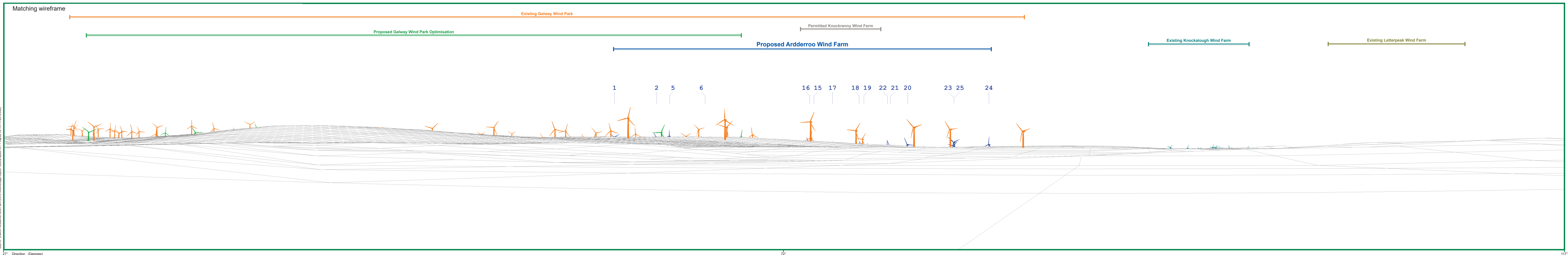


53.5-Degree View Extent



Matching wireframe





160915 - Eirias - Ardderroo Wind Farm EIS (Photomontage Layout Tagged V5 - T Layout V8 - 21-11-2018.indd)

0° Included Angle (Degrees)

26.5°

53.4°

Proposed Photomontage at 53.5 degrees with Cumulative

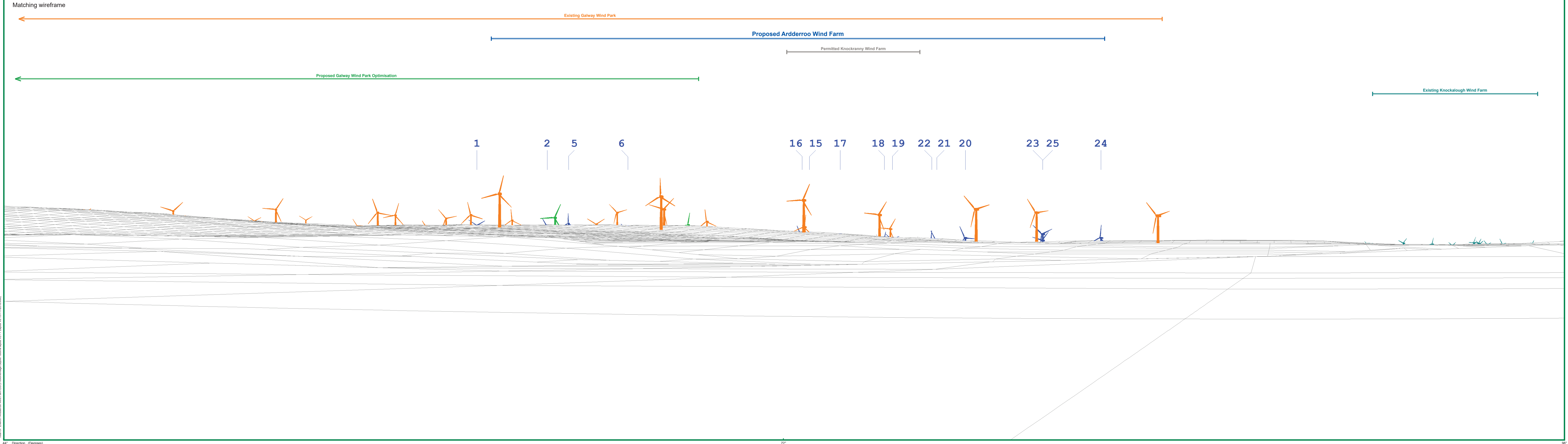


160815 - Eirco - Ardara Wind Farm EIS Photomontage Layout Tables Input 03 - 1 Layout V16.0 (11/2018) (40)

44° Direction (Degrees)

72°

96°



Matching wireframe

Existing Galway Wind Park

Proposed Ardderroo Wind Farm

Permitted Knockranny Wind Farm

Proposed Galway Wind Park Optimisation

Existing Knockalough Wind Farm

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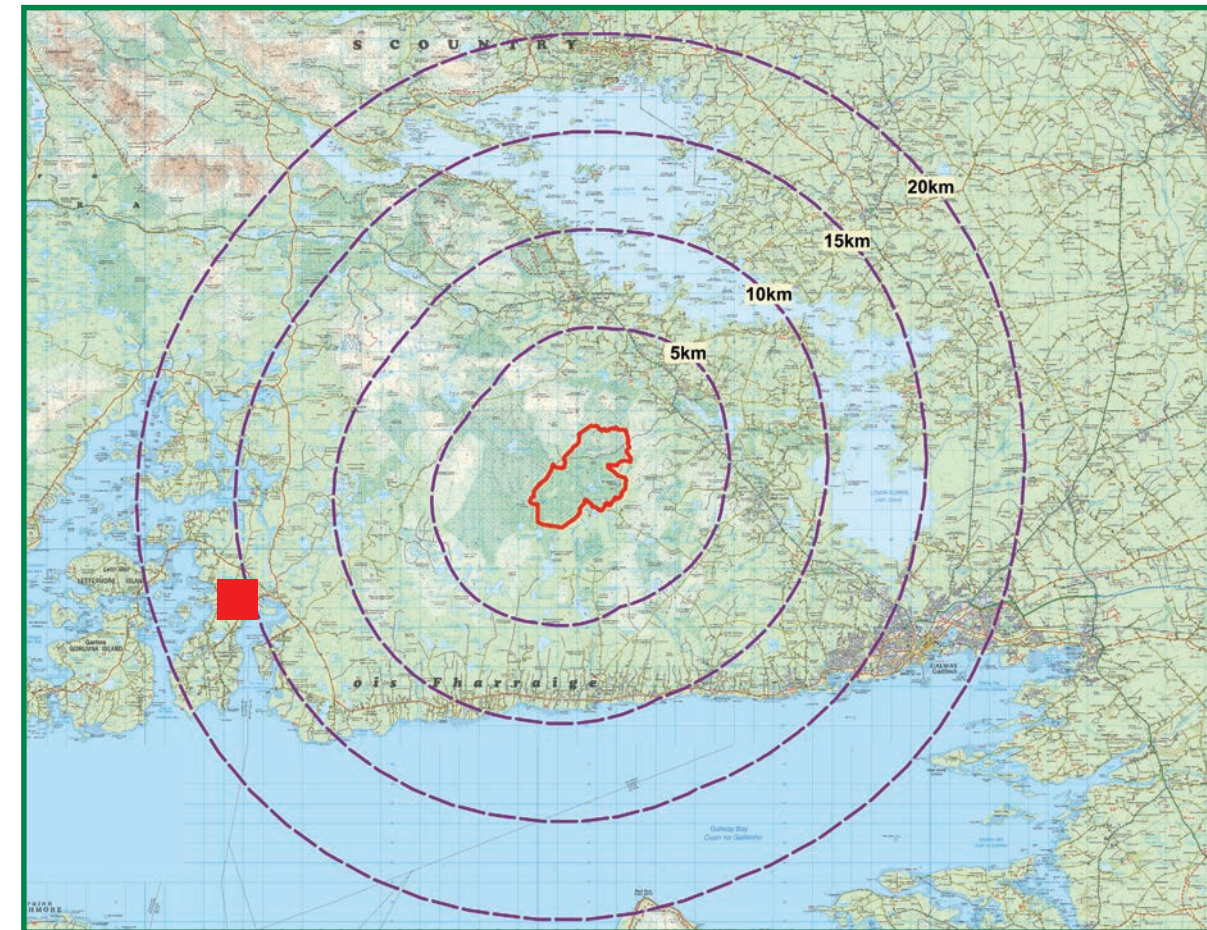
25

24

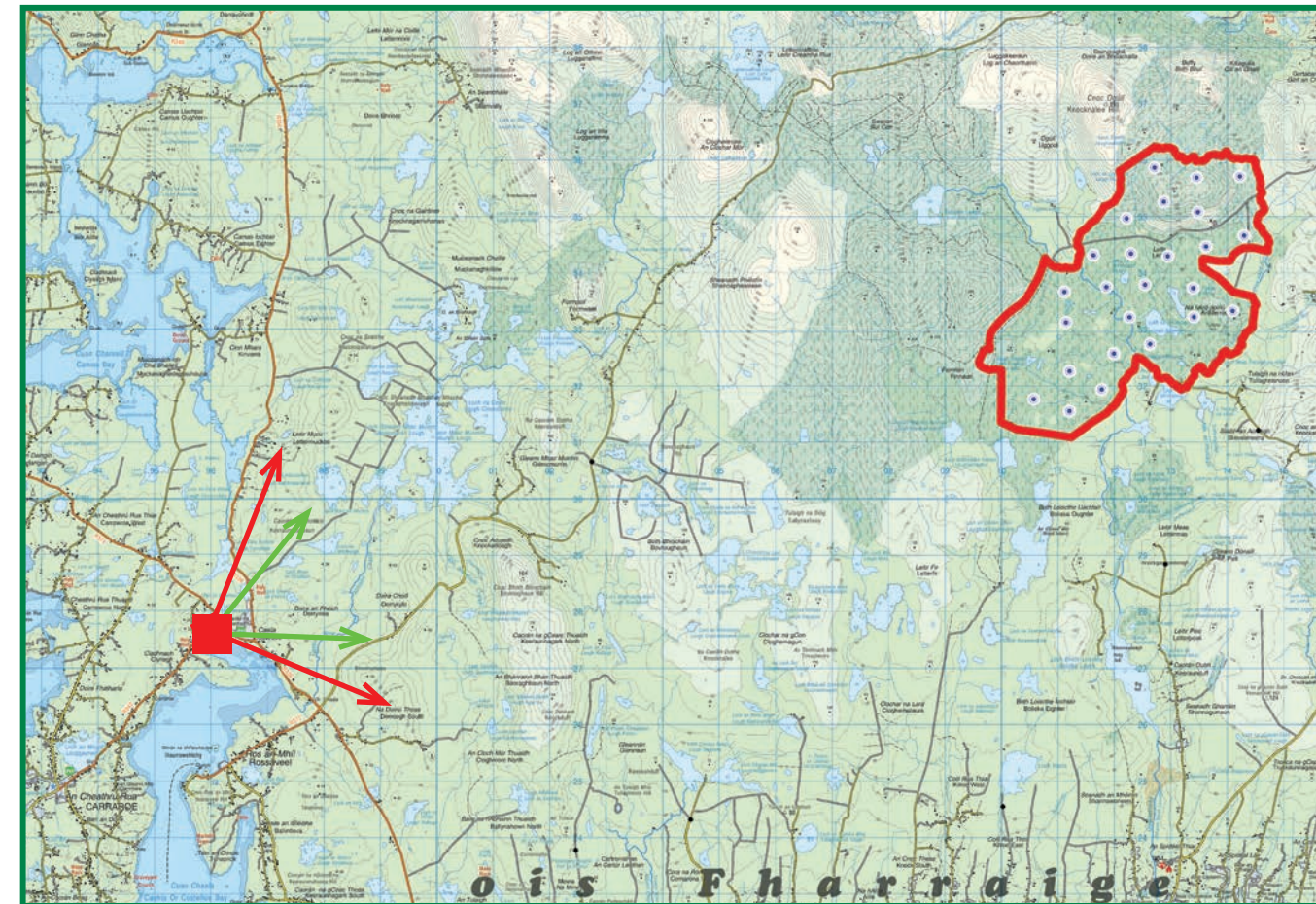
Photomontage 22

View Point: View from the Regional Road R343 in the townland of Clynagh, approximately 15.12 kilometres southwest of the nearest turbine.

View point grid reference	95,993(E); 227,599(N)
Date of image taken	28.06.2018
Time of image taken	4.52pm
View point elevation	10m
Angle of View	90°
View Direction (Image Centre)	65°
Horizontal extent of proposed turbines	9°
Distance to nearest proposed turbine	15.1km (T25)
Number of proposed turbines visible	3/25
Turbine Hub Height	112m
Turbine Tip Height	178.5m
Turbine Rotor Diameter	133m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
Map Licence	©Copyright of Ordnance Survey Ireland. All Rights Reserved; License No: AR0021818



View point 22 relative to 20km radius.



View point 22 relative to wind farm site (core boundary outlined in red).



Detail of view point 22 location.

Map Legend

- Area shown in 90-degree view
- Area shown in 53.5-degree view
- View point
- Site Boundary

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90-Degree View Extent

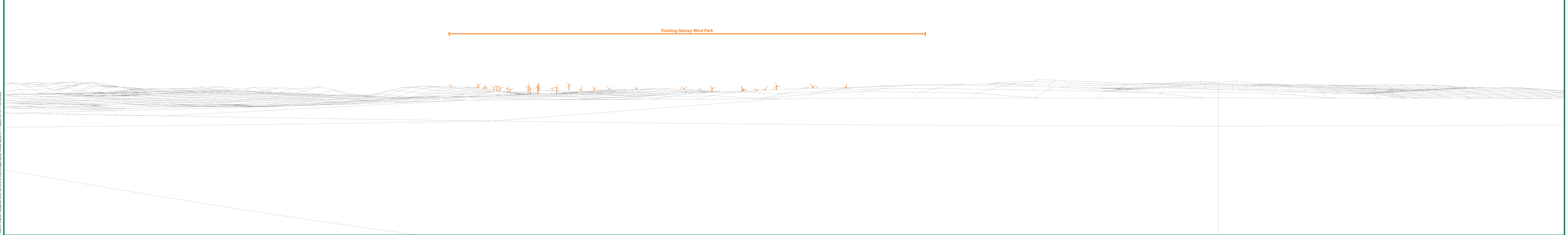
Key image at 90 degrees



53.5-Degree View Extent

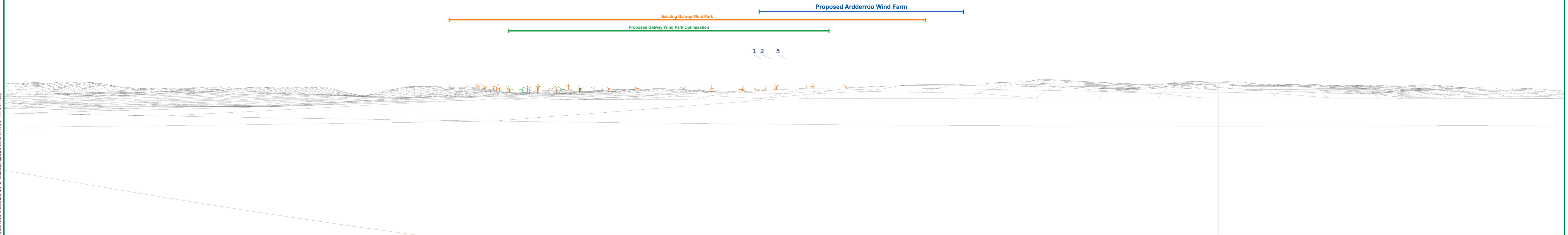


Matching wireframe





Matching wireframe

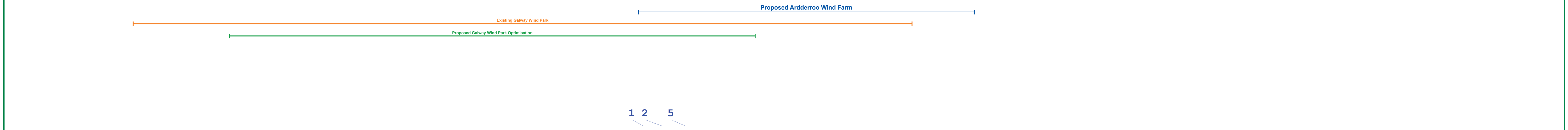


Proposed Photomontage at 53.5 degrees with Cumulative



160815 - Eneco - Ardara Wind Farm EIS Photomontage Layout - T1 Layout V16 - 01-11-2018 (A03)

Matching wireframe



1 2 5