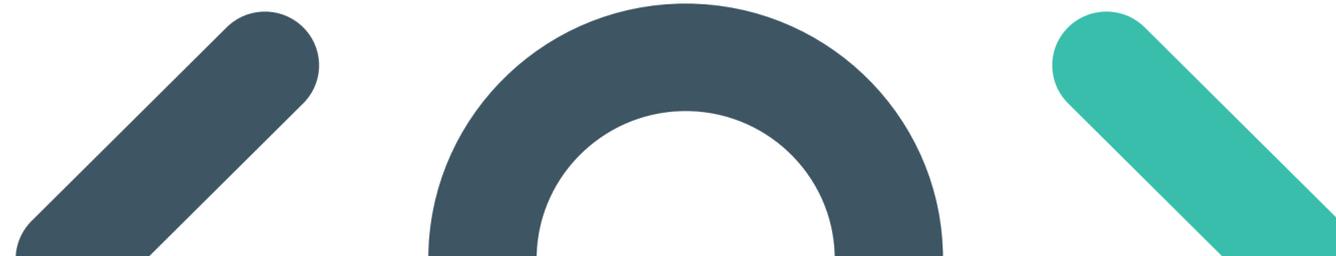


Cleanrath Wind Farm, Co. Cork
Volume 2

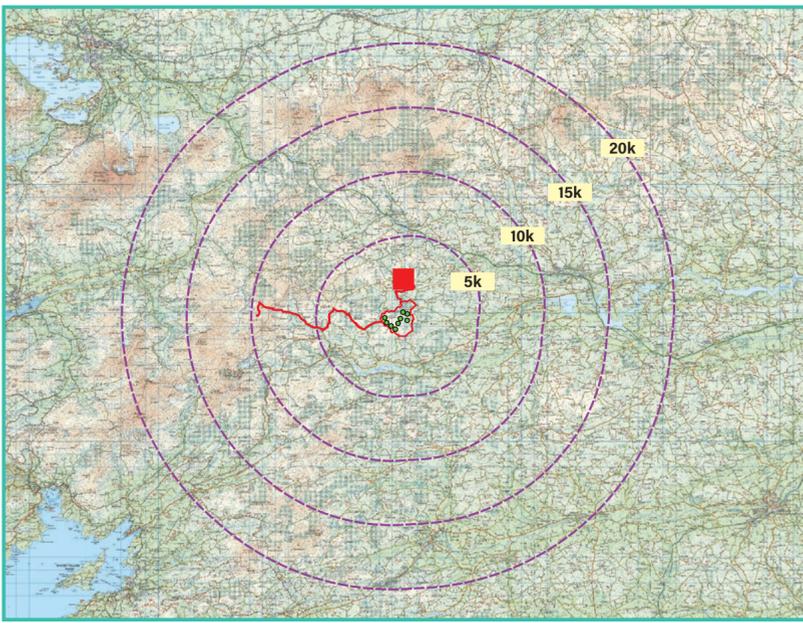
PHOTOMONTAGE BOOKLET



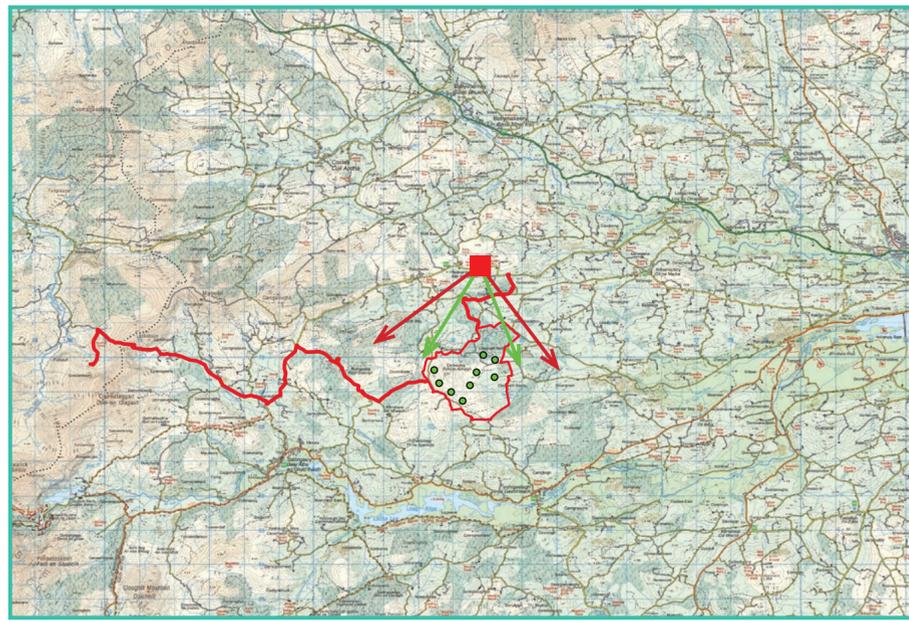
Photomontage 1

View Point: Local road outside Reananerree village, approximately 2.53 kilometres north of nearest turbine location.

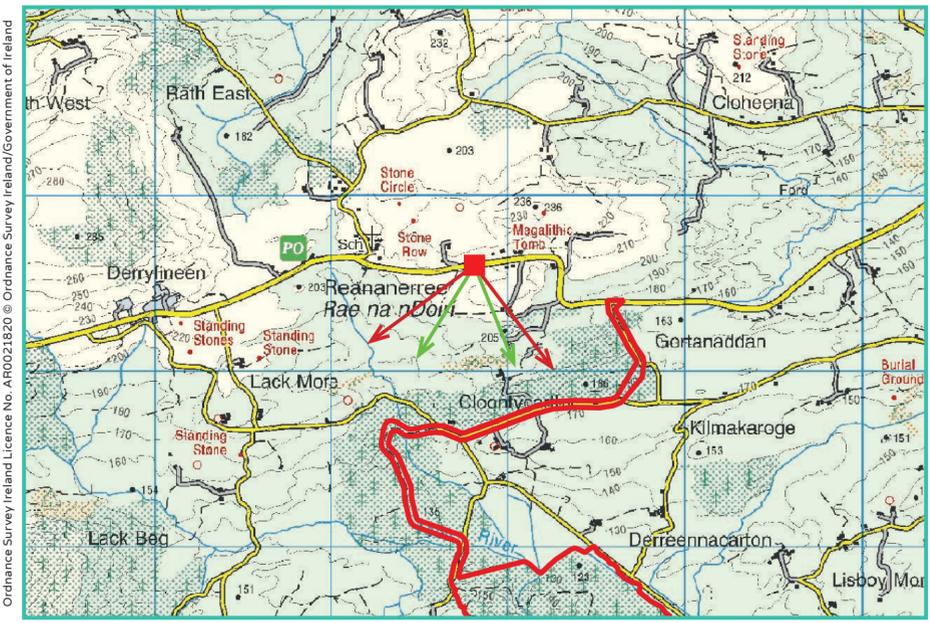
View point grid reference	120,814(E); 72,602(N)
Date of image taken	02.05.2020
Time of image taken	10.16am
View point elevation	203m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	187°
Horizontal extent of proposed turbines	28°
Distance to nearest proposed turbine	2.5km (T1)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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: AR 0021820



View point relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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Website: www.mkofireland.ie



90° View Extent



Key Image at 120°

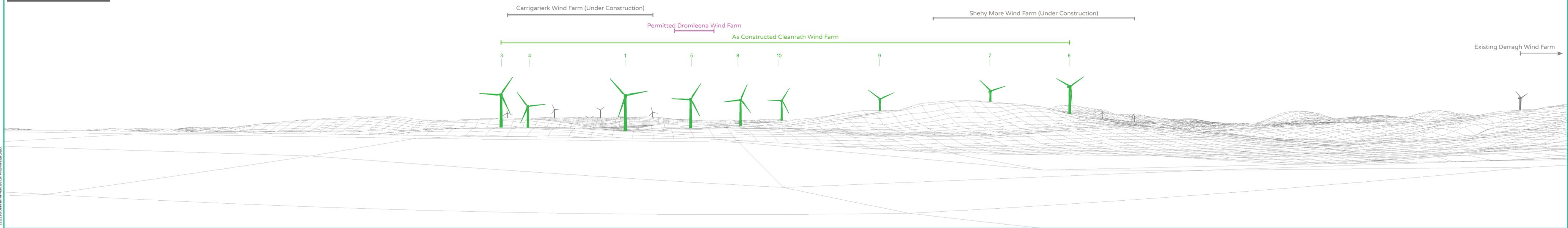


53.5° View Extent





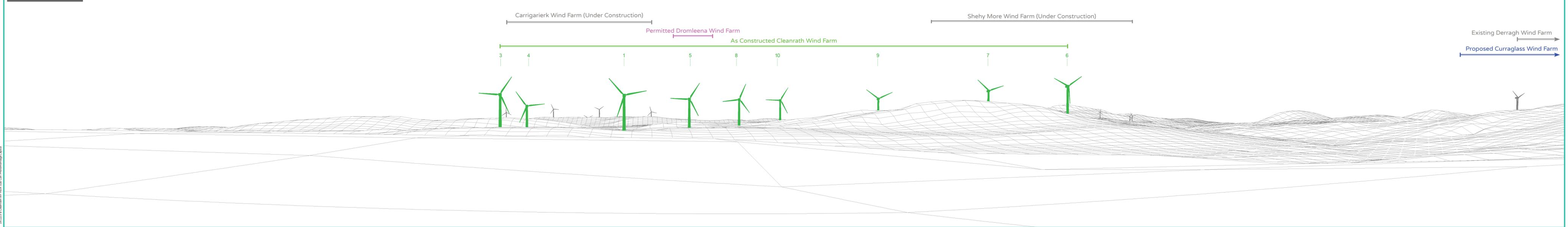
Matching Baseline Wireframe



191223 - Cleanrath WF - FIG. 10 - Sub-Photomontage Layout



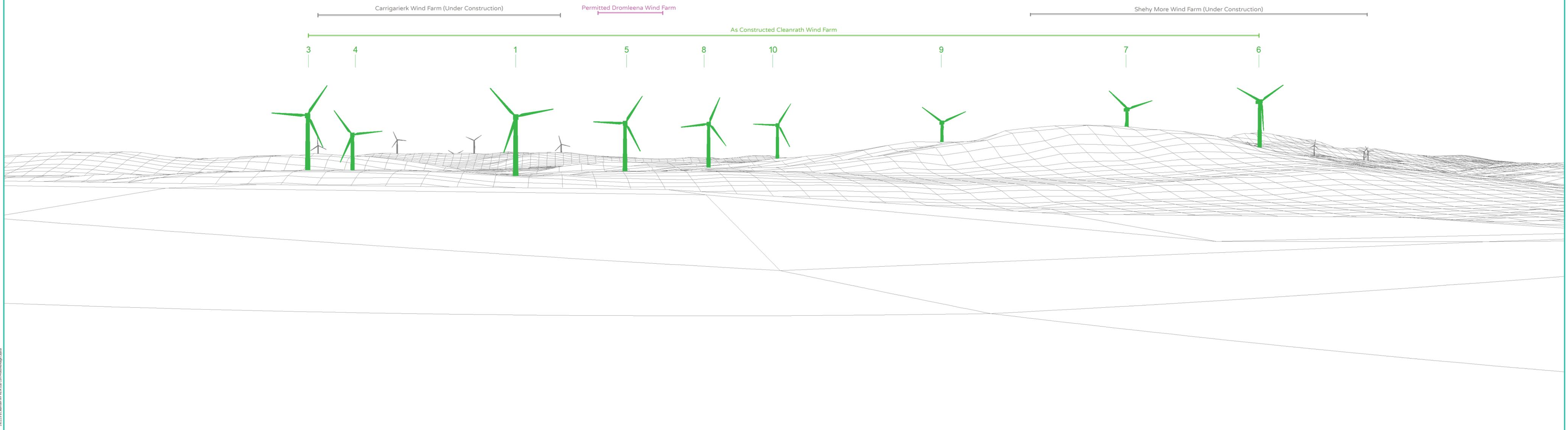
Matching Wireframe



Cumulative Photomontage 53.5°



Matching Wireframe



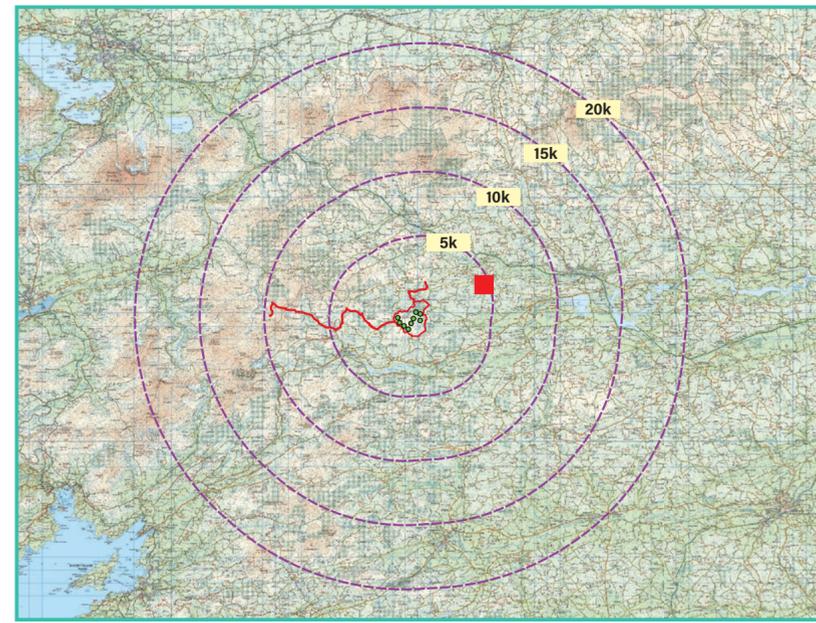
Killnamartery

View Point PL2

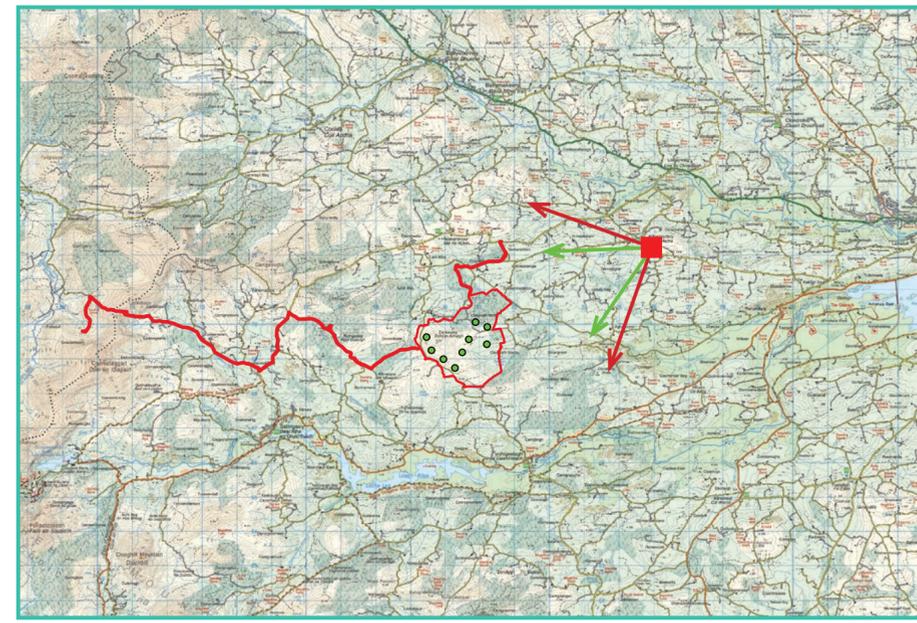
Photomontage 2

View Point: Local road outside Killnamartery village, approximately 5.29 kilometres northeast of nearest turbine location.

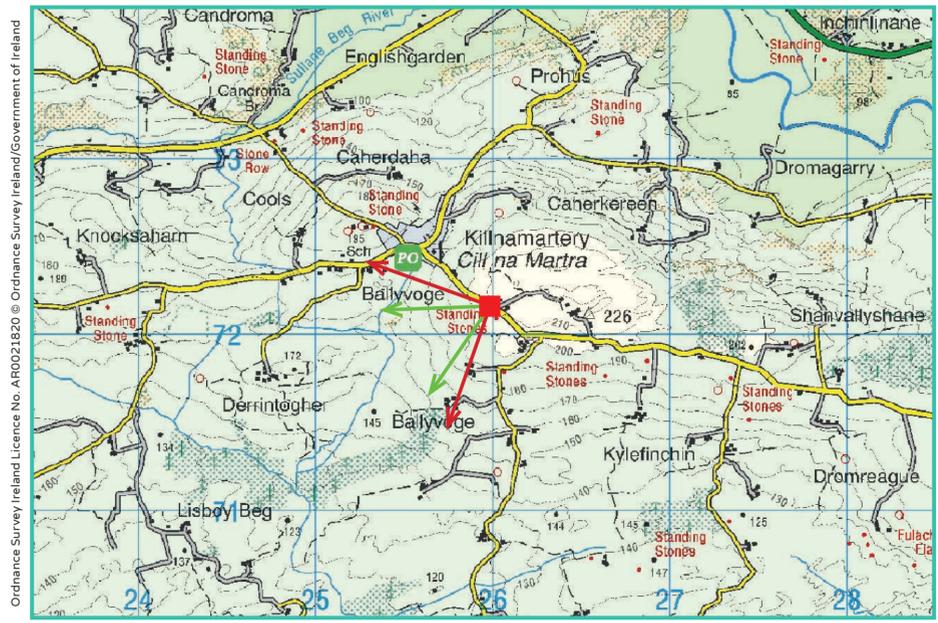
View point grid reference	126,029(E); 72,141(N)
Date of image taken	02.05.2020
Time of image taken	10.45am
View point elevation	210m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	244°
Horizontal extent of proposed turbines	10°
Distance to nearest proposed turbine	5.2km (T3)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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: AR 0021820



View point relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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Website: www.mkoireland.ie



90° View Extent



Key Image at 120°

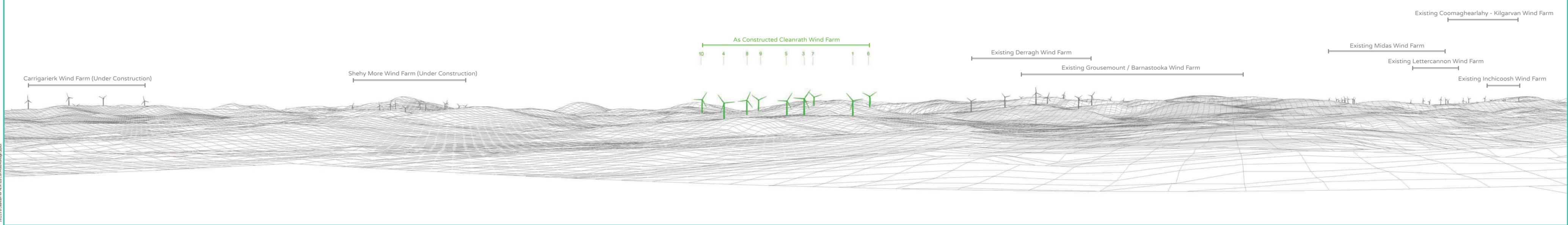
53.5° View Extent



191223 - Cleanrath Wind Farm, Sub-Photomontage Layout



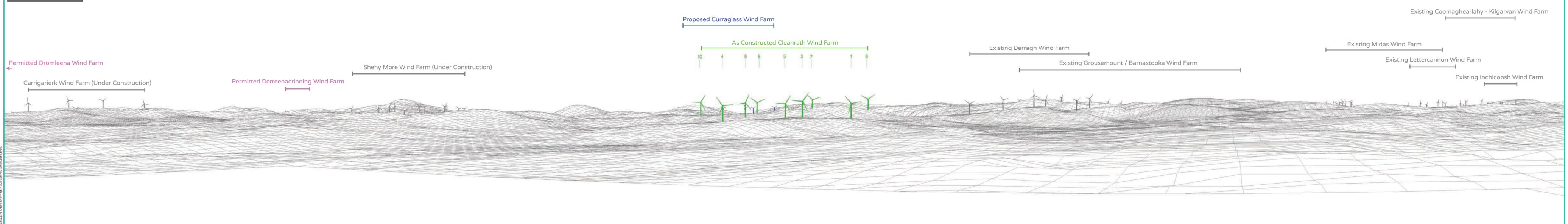
Matching Baseline Wireframe



191223 - Cleanrath WF - Full Sub-Construction Layout



Matching Wireframe



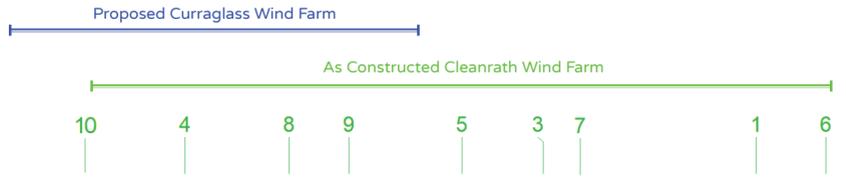
191223-4 Cleanrath WF FEIA Sub-Com Photomontage Layout

Cumulative Photomontage 53.5°



191223-01-Channell-WP-FBIA-Sub-Cum-Photomontage-Landsc

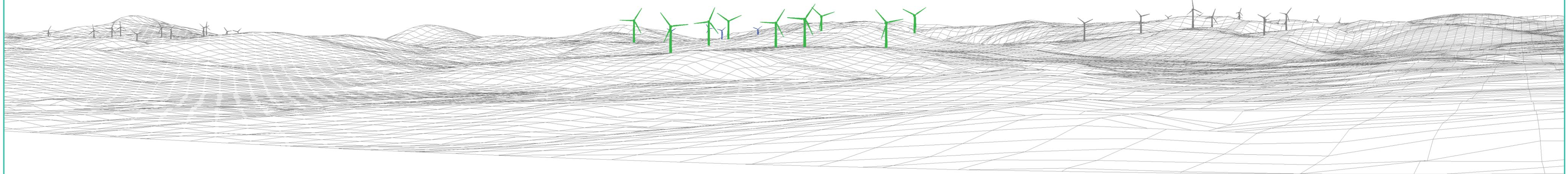
Matching Wireframe



Shehy More Wind Farm (Under Construction)

Existing Derragh Wind Farm

Existing Grousemount / Barnastooka Wind Farm



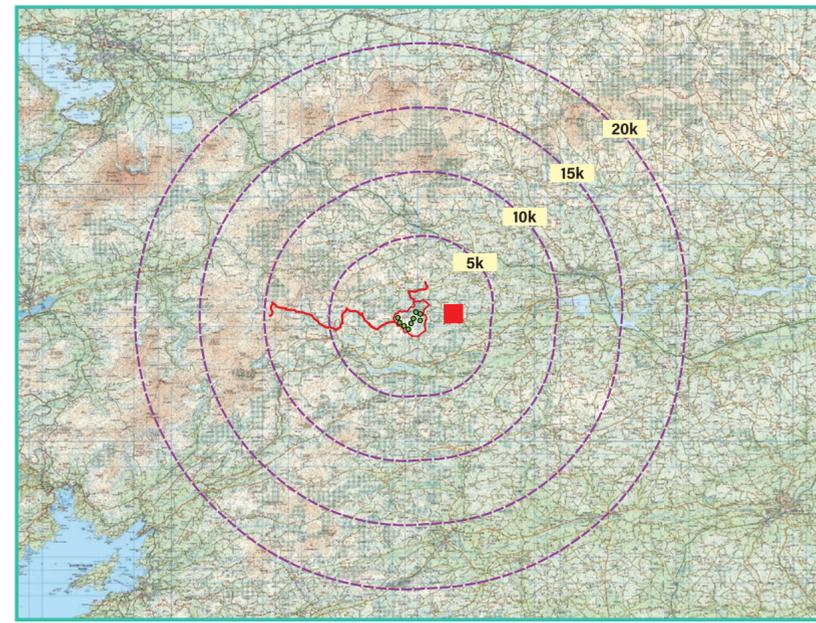
Lisboy More

View Point PL3

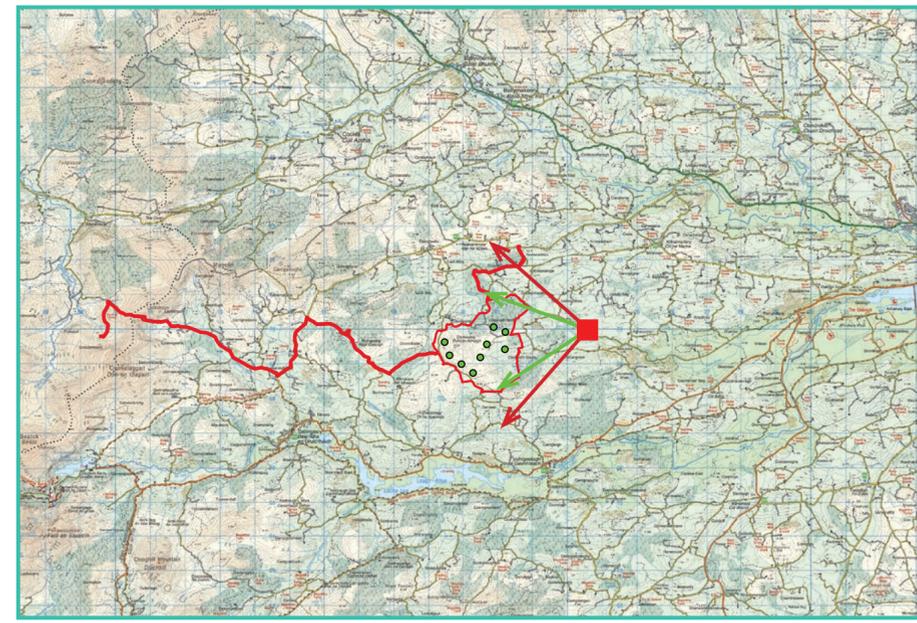
Photomontage 3

View Point: Local road in townland of Lisboy More, approximately 2.40 kilometres east of nearest turbine location.

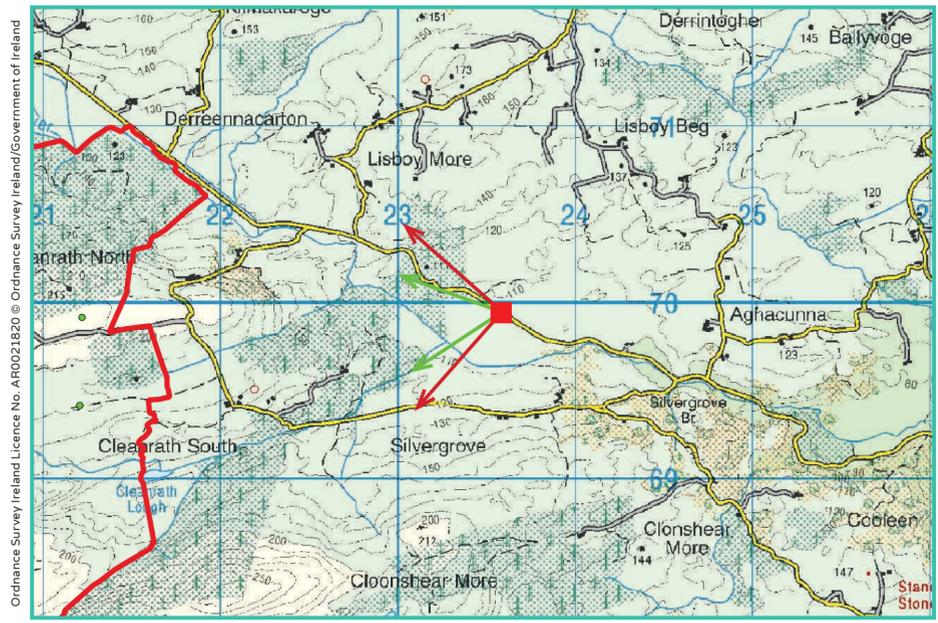
View point grid reference	123,619(E); 69,924(N)
Date of image taken	02.05.2020
Time of image taken	11.15am
View point elevation	108m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	266°
Horizontal extent of proposed turbines	22°
Distance to nearest proposed turbine	2.4km (T3)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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90° View Extent

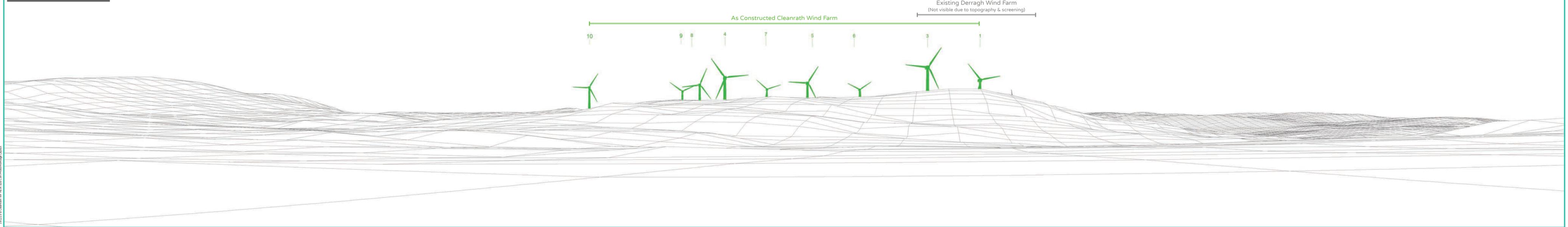


Key Image at 120°

53.5° View Extent



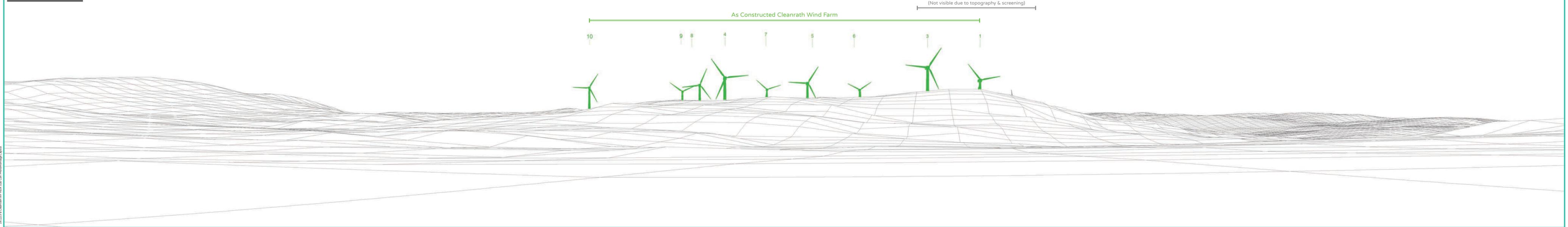
Matching Baseline Wireframe



191223 - Cleanrath WP - FIG. 10 - Sub-Contour Photomontage Layout



Matching Wireframe

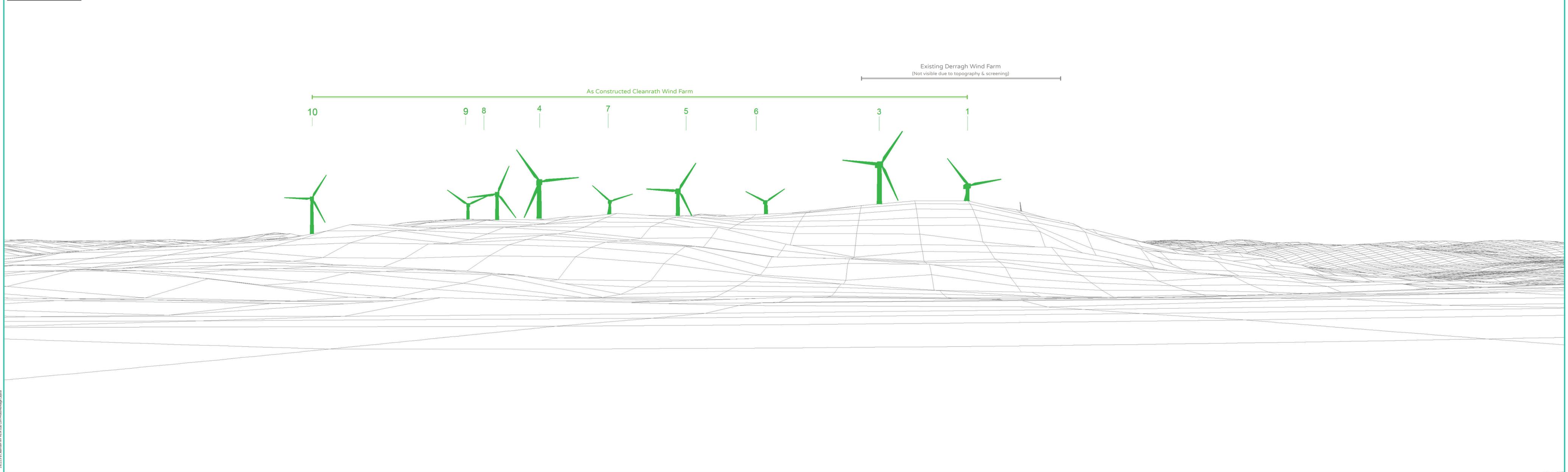


Cumulative Photomontage 53.5°



191223-01-Chanarra W/F PBA, Sub-Cum Photomontage Layout

Matching Wireframe



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1

As Constructed Cleanrath Wind Farm

Existing Derragh Wind Farm
(Not visible due to topography & screening)

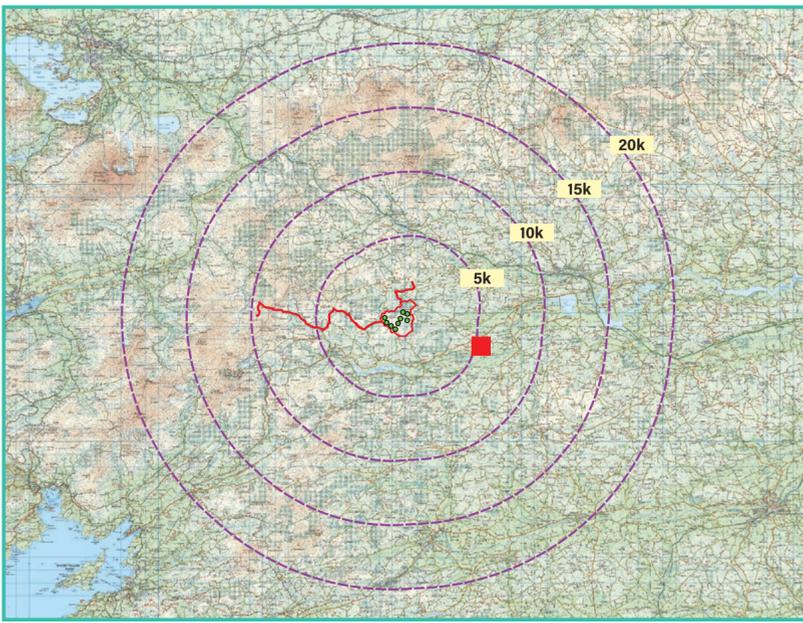
Carrignaneelagh

View Point PL4

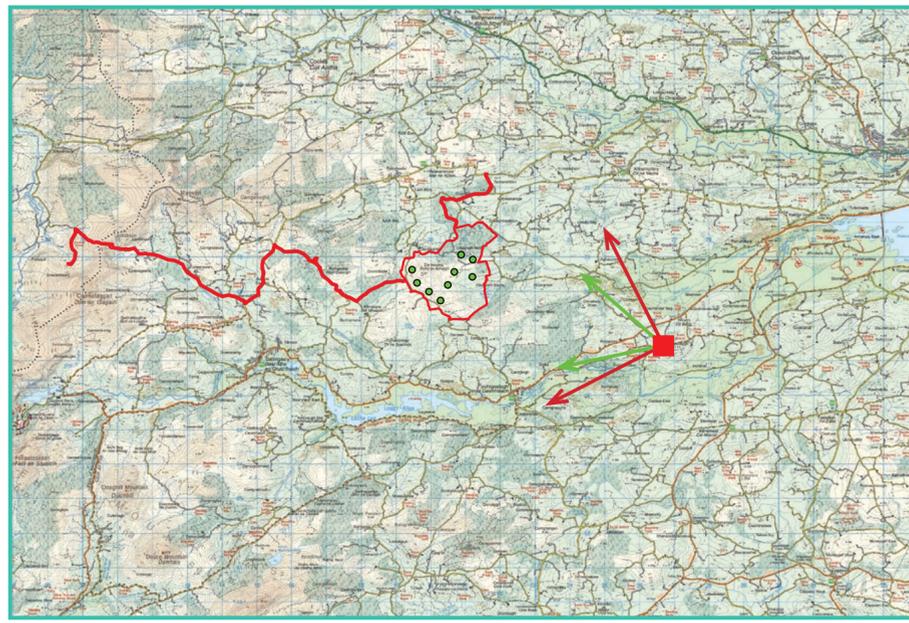
Photomontage 4

View Point: Local road in townland of Carrignaneelagh, approximately 5.90 kilometres southeast of nearest turbine location. Located on Scenic Route 35.

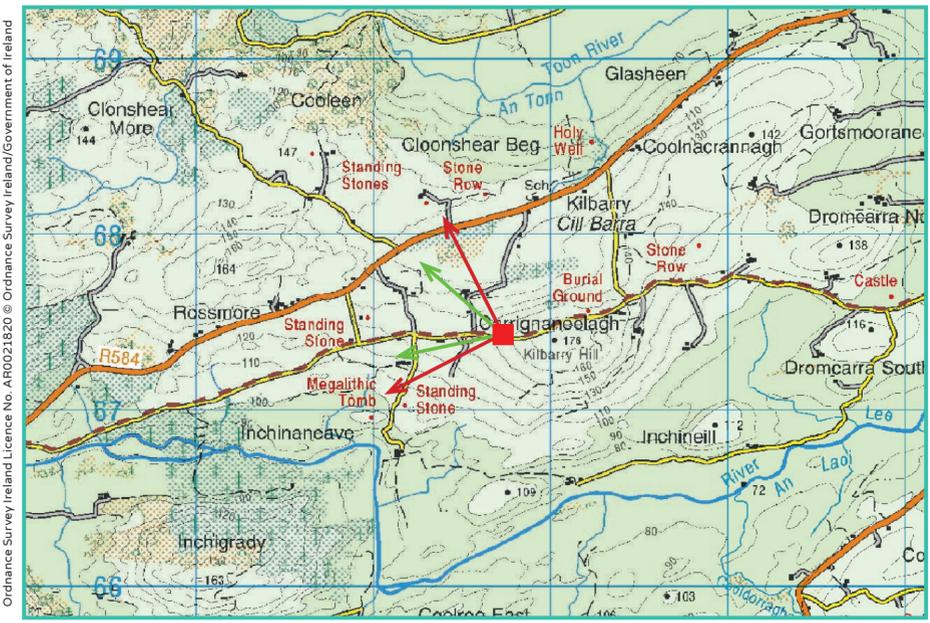
View point grid reference	126,832(E); 67,409(N)
Date of image taken	02.05.2020
Time of image taken	11.47am
View point elevation	164m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	288°
Horizontal extent of proposed turbines	13°
Distance to nearest proposed turbine	5.9km (T4)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view ↔
- Area shown in 53.5° view ↔
- View Point ■
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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Website: www.mkofireland.ie



90° View Extent



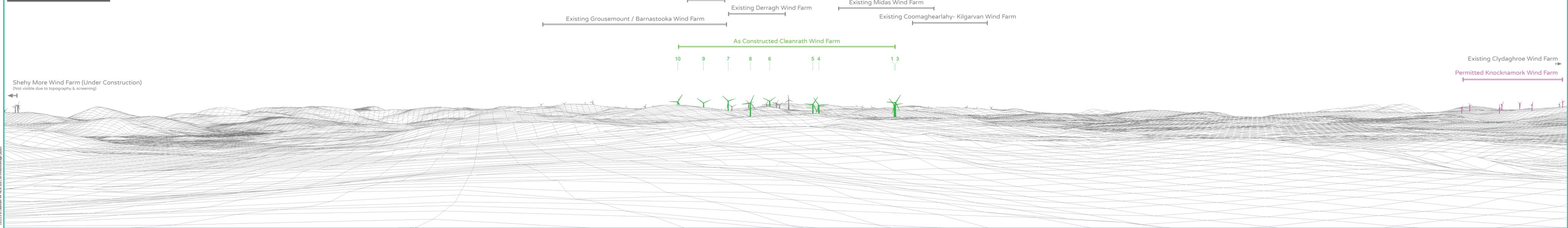
Key Image at 120°

53.5° View Extent

19/22/23 © Cleanrath W/F REA Sub-Cont Photomontage Layout



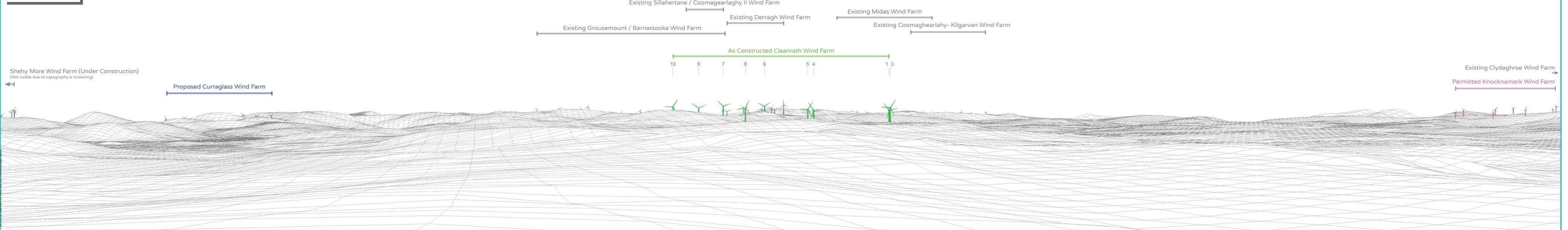
Matching Baseline Wireframe



191223 - Cleanrath WP - RFL - Sub - Con - Photomontage Layout



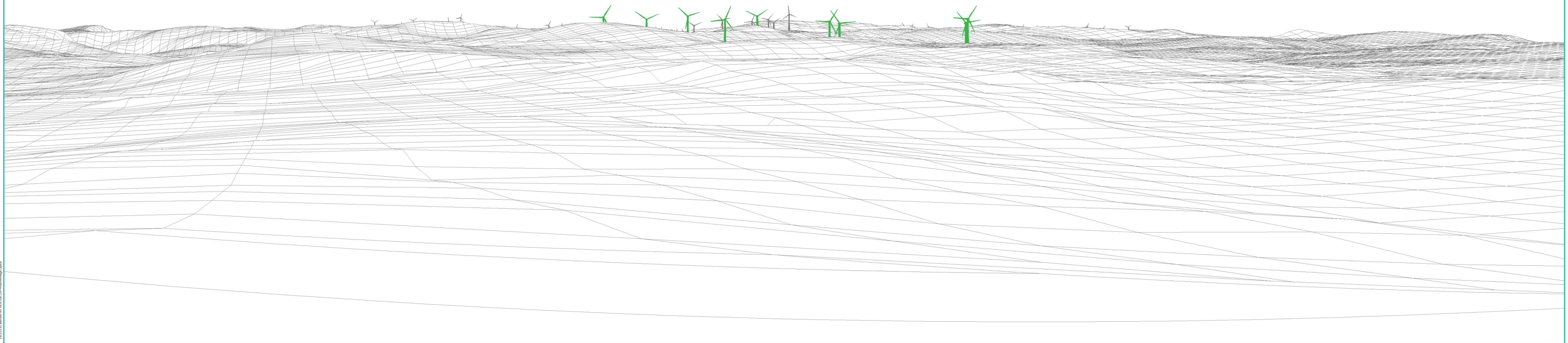
Matching Wireframe



Cumulative Photomontage 53.5°



Matching Wireframe

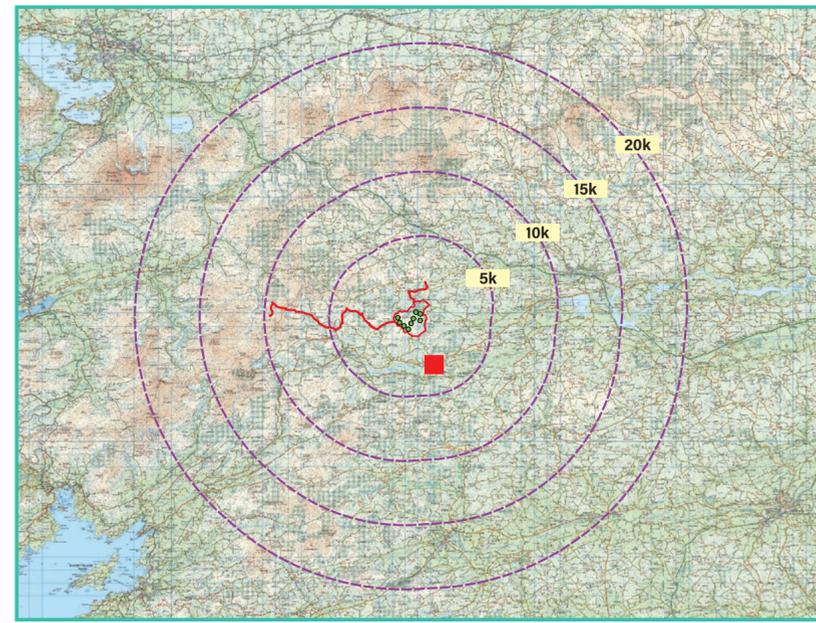


View Point PL5 Inchigeelagh

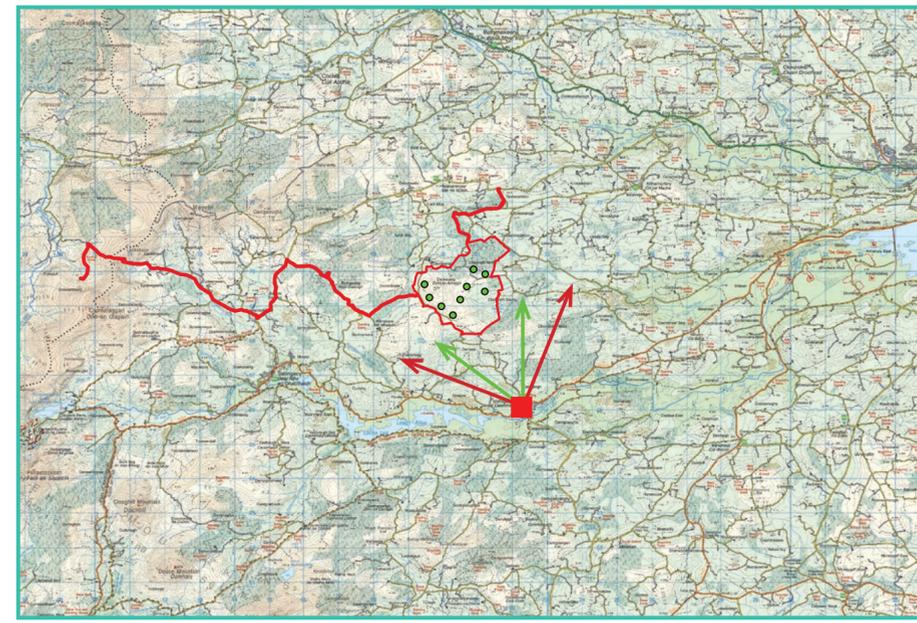
Photomontage 5

View Point: R584 Regional Road outside Inchigeelagh, approximately 3.32 kilometres southeast of nearest turbine location.

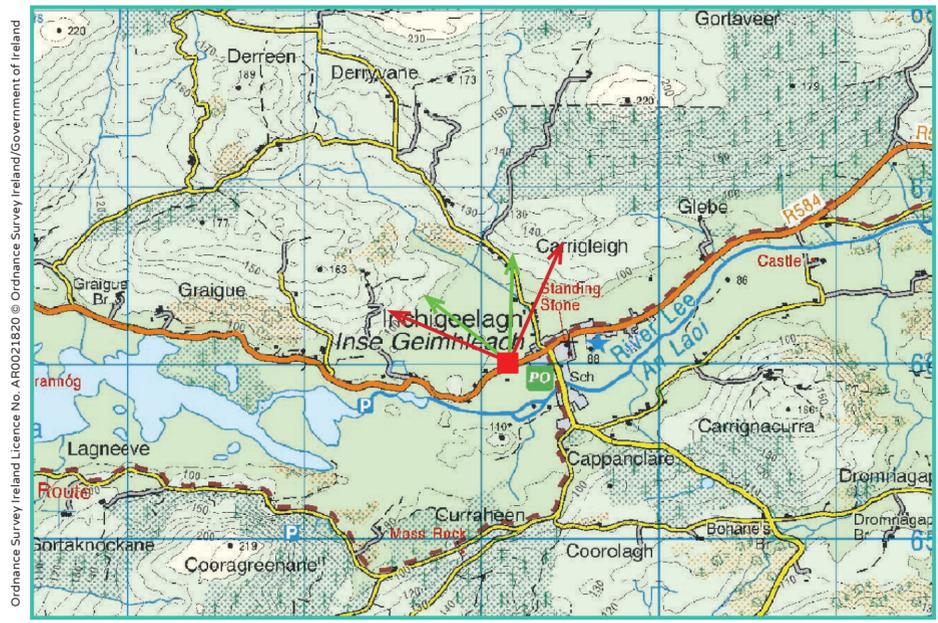
View point grid reference	122,156(E); 65,986(N)
Date of image taken	02.05.2020
Time of image taken	12.20pm
View point elevation	87m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	335°
Horizontal extent of proposed turbines	24°
Distance to nearest proposed turbine	3.3km (T10)
Number of proposed turbines visible	5/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view ↔
- Area shown in 53.5° view ↔
- View Point ■
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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Website: www.mkofireland.ie



90° View Extent

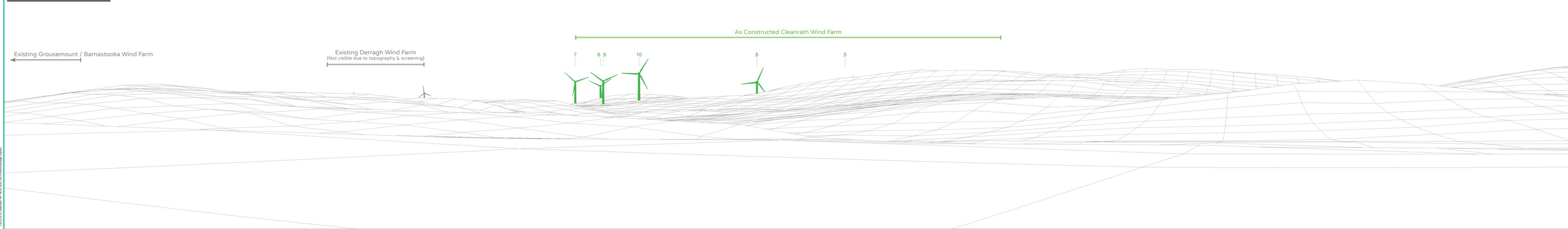


Key Image at 120°

53.5° View Extent



Matching Baseline Wireframe





Matching Wireframe



Cumulative Photomontage 53.5°



Matching Wireframe



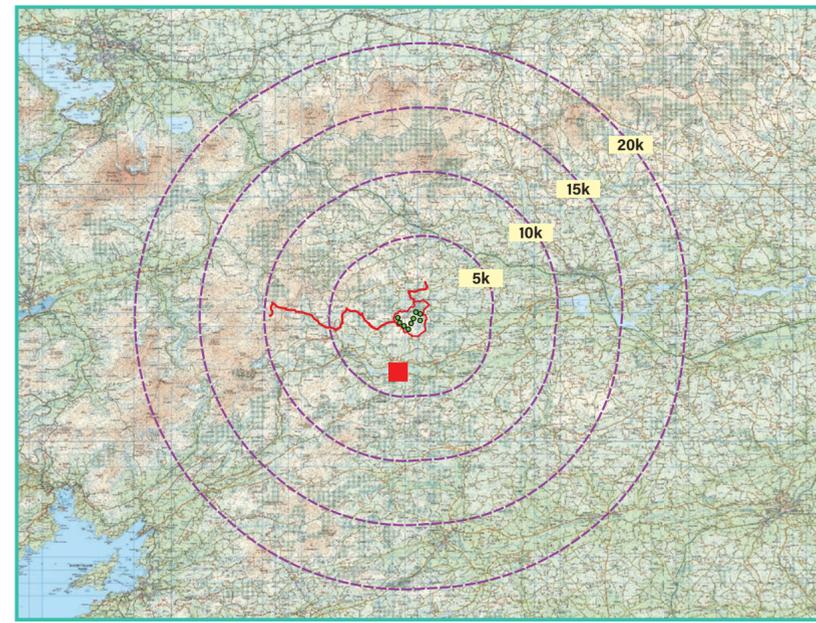
Lough Allua

View Point PL6

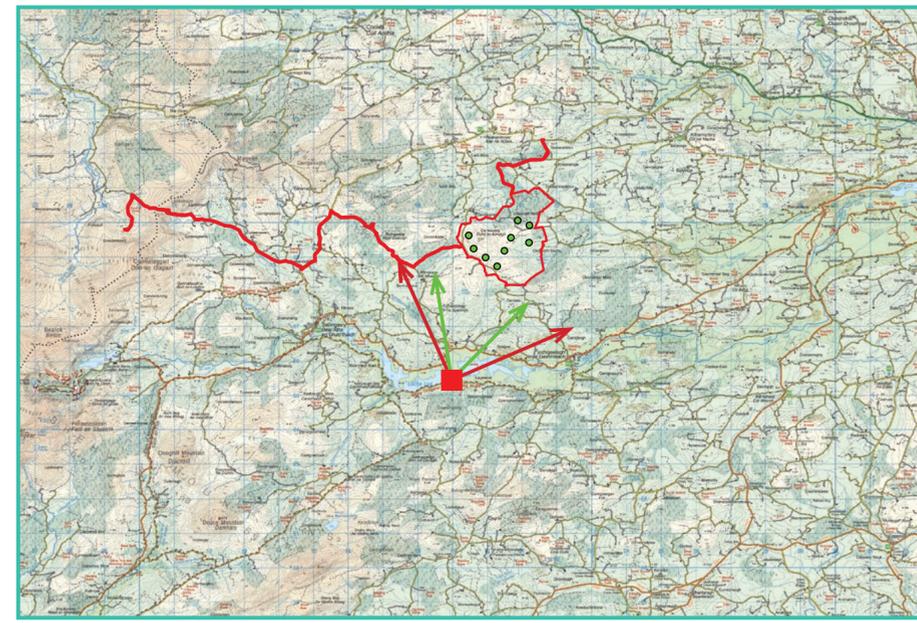
Photomontage 6

View Point: Local road on the southern shore of Lough Allua, approximately 3.60 kilometres southwest of nearest turbine location. Located on Scenic Route 32.

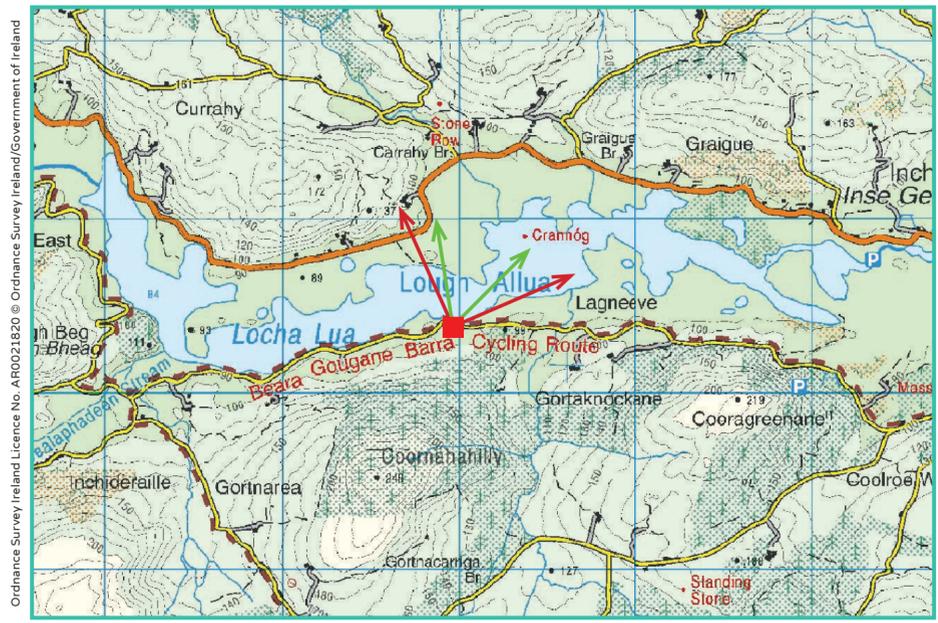
View point grid reference	118,964(E); 65,396(N)
Date of image taken	02.05.2020
Time of image taken	1.00pm
View point elevation	89m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	20°
Horizontal extent of proposed turbines	22°
Distance to nearest proposed turbine	3.6km (T10)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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E-mail: info@mkofireland.ie
Website: www.mkofireland.ie



Key Image at 120°

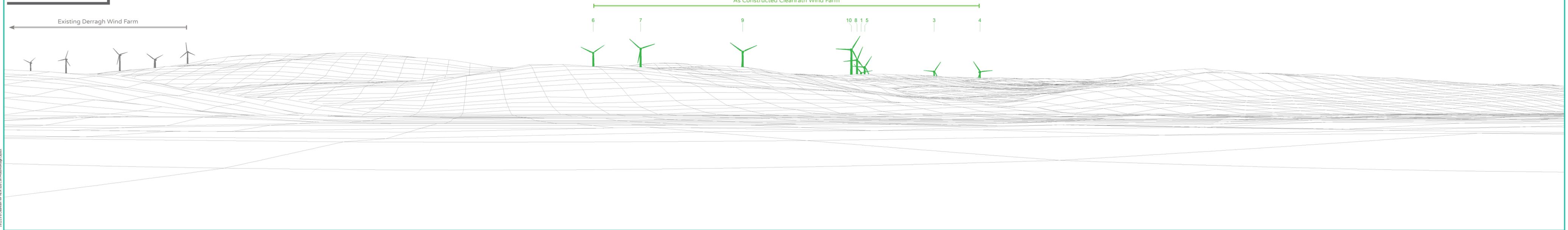


53.5° View Extent

19/22/23 © Cleanrath W/F REA Sub-Cont Photomontage Layout



Matching Baseline Wireframe

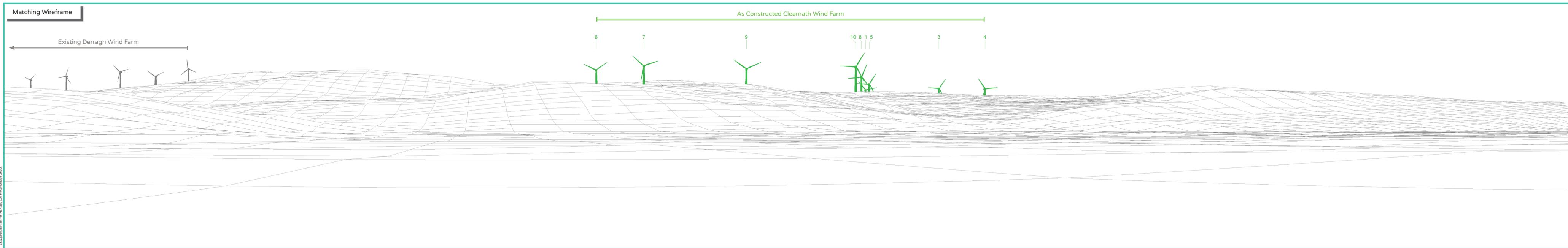


191223 - Cleanrath WF - FIG. 10 - Sub. Con. Photomontage Layout

Cumulative Photomontage 90°



Matching Wireframe

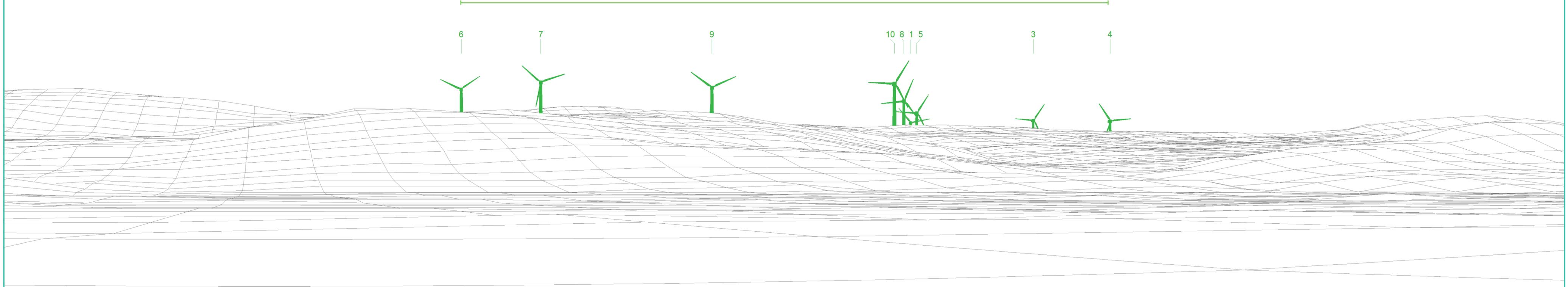


Cumulative Photomontage 53.5°



Matching Wireframe

As Constructed Cleanrath Wind Farm



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10

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1

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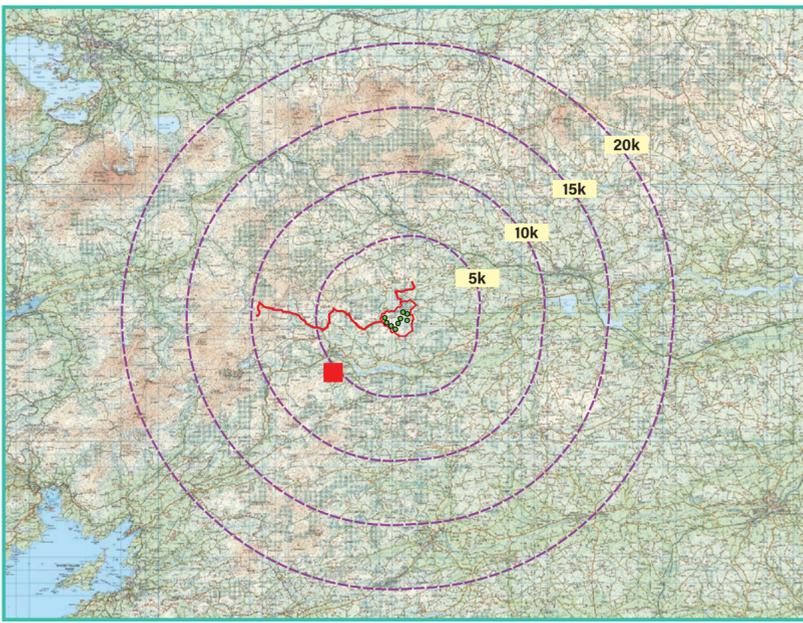
Kealvaugh More

View Point PL7

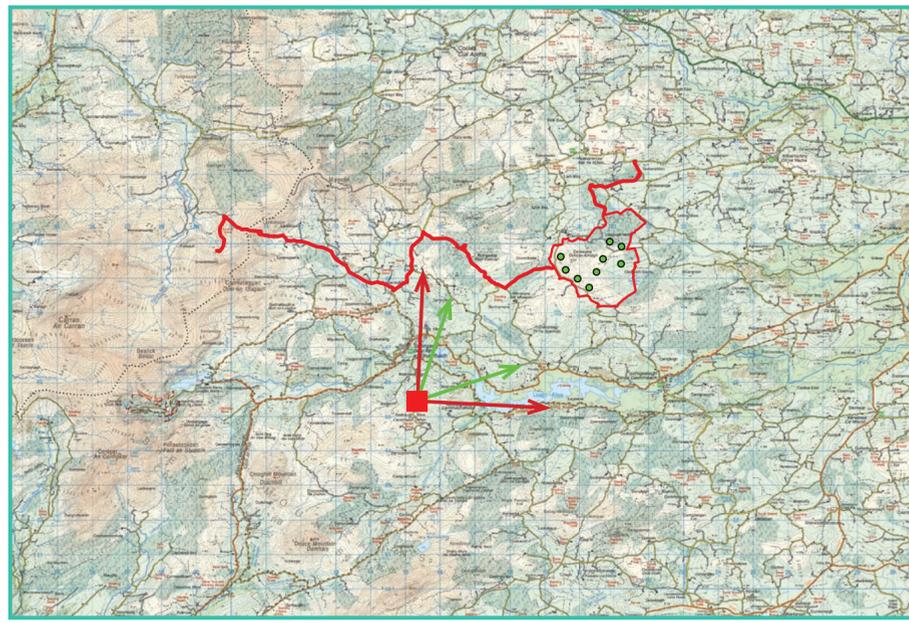
Photomontage 7

View Point: Local road in townland of Kealvaugh More, approximately 5.78 kilometres southwest of nearest turbine location. Located on Scenic Route 33.

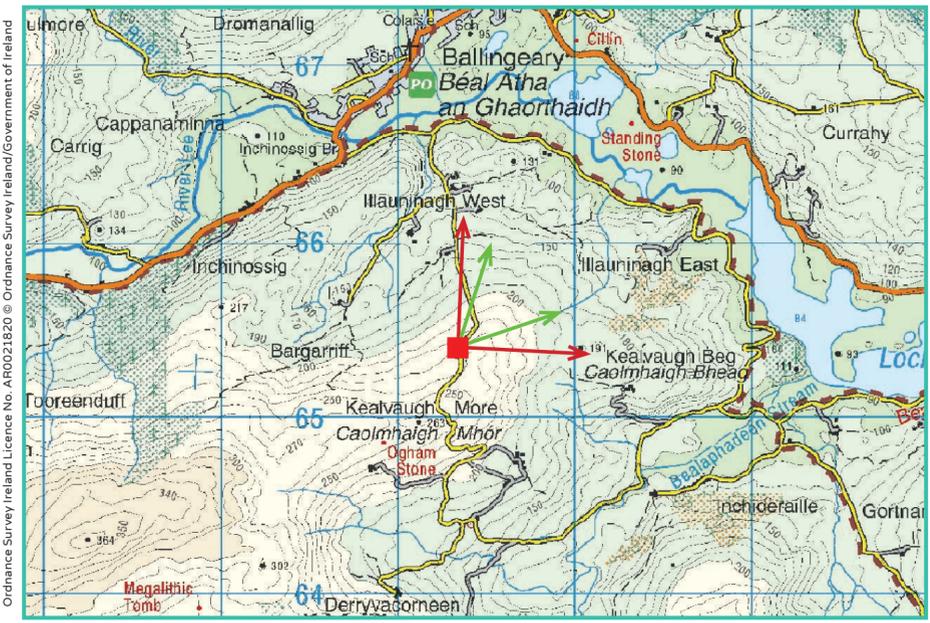
View point grid reference	115,313(E); 65,369(N)
Date of image taken	02.05.2020
Time of image taken	1.35pm
View point elevation	230m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	48°
Horizontal extent of proposed turbines	12°
Distance to nearest proposed turbine	5.8km (T7)
Number of proposed turbines visible	8/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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Tel: (091) 73 56 11
E-mail: info@mkofireland.ie
Website: www.mkofireland.ie



90° View Extent



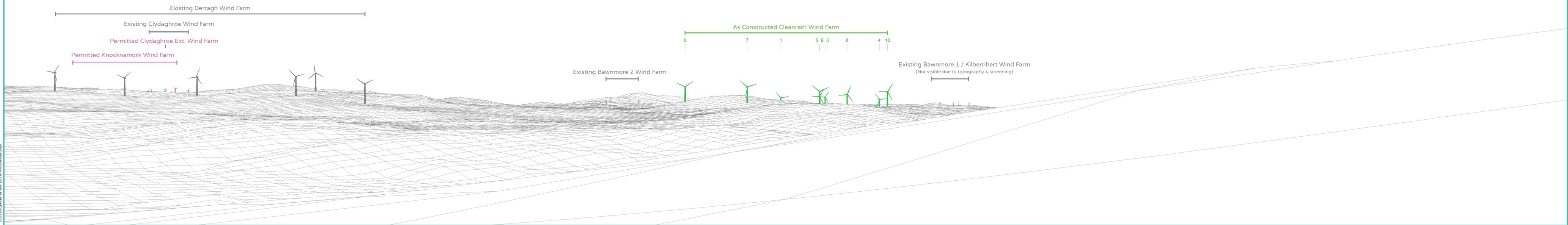
Key Image at 120°

53.5° View Extent



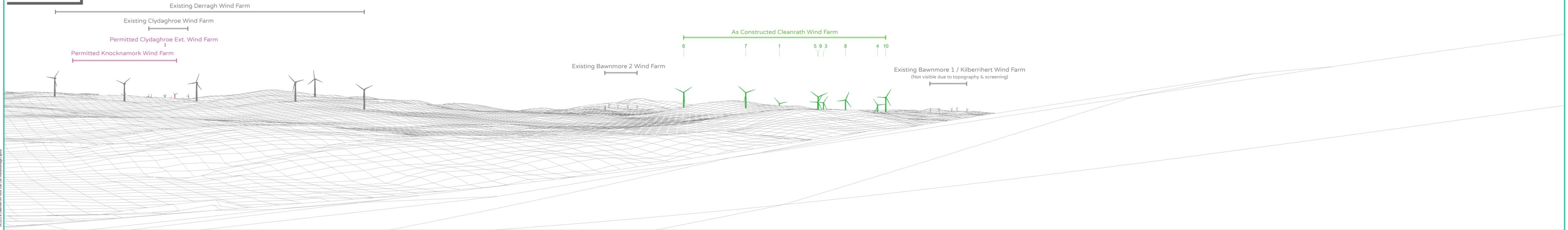


Matching Baseline Wireframe





Matching Wireframe

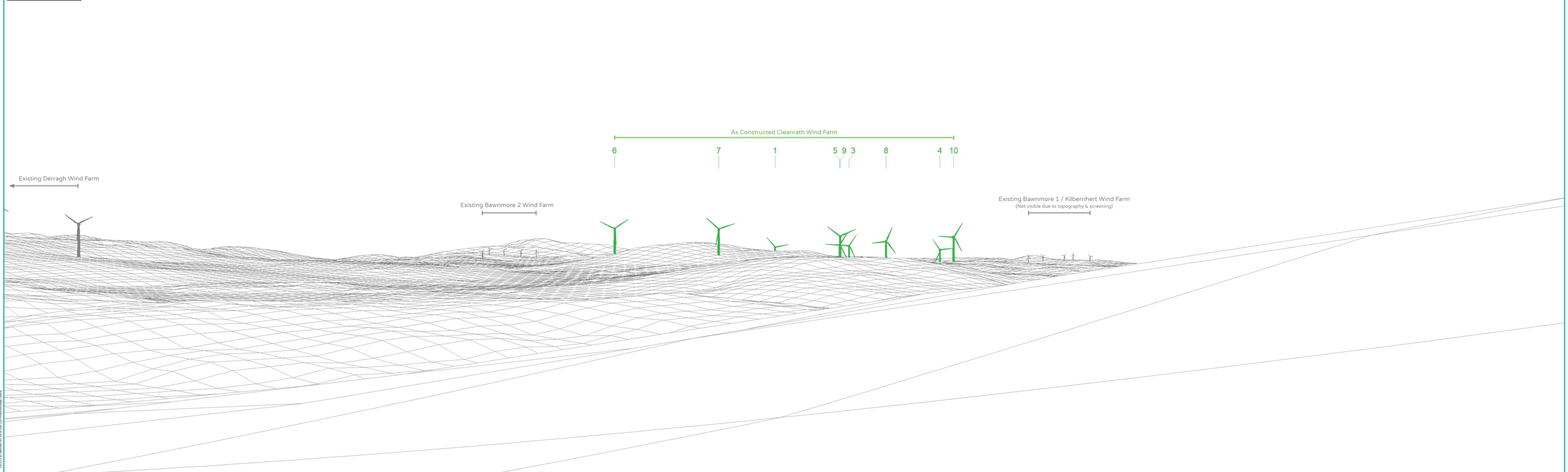


Cumulative Photomontage 53.5°



191223-01-Channell-WF-PBA-Sub-Photomontage-Layout

Matching Wireframe

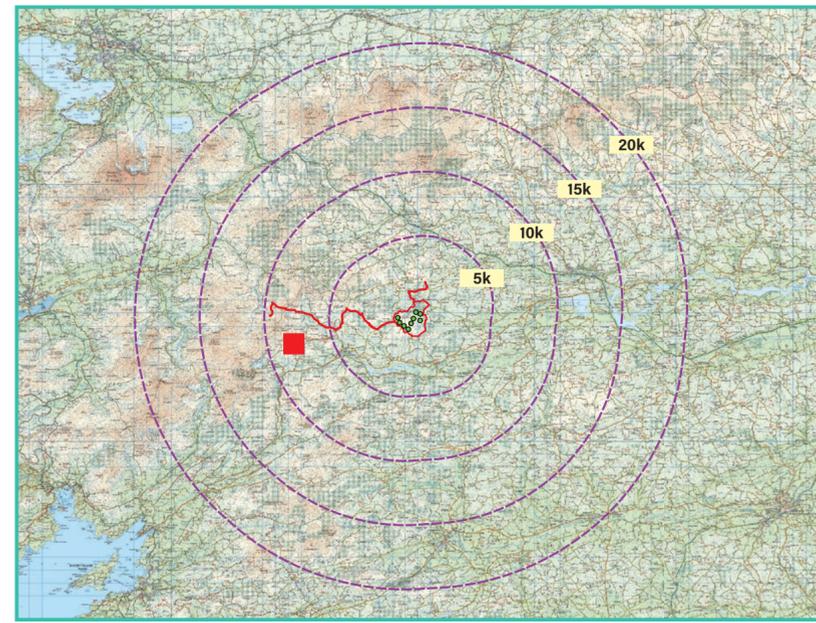


191223 - Cleanrath Wind Farm - Con Photomontage Layout

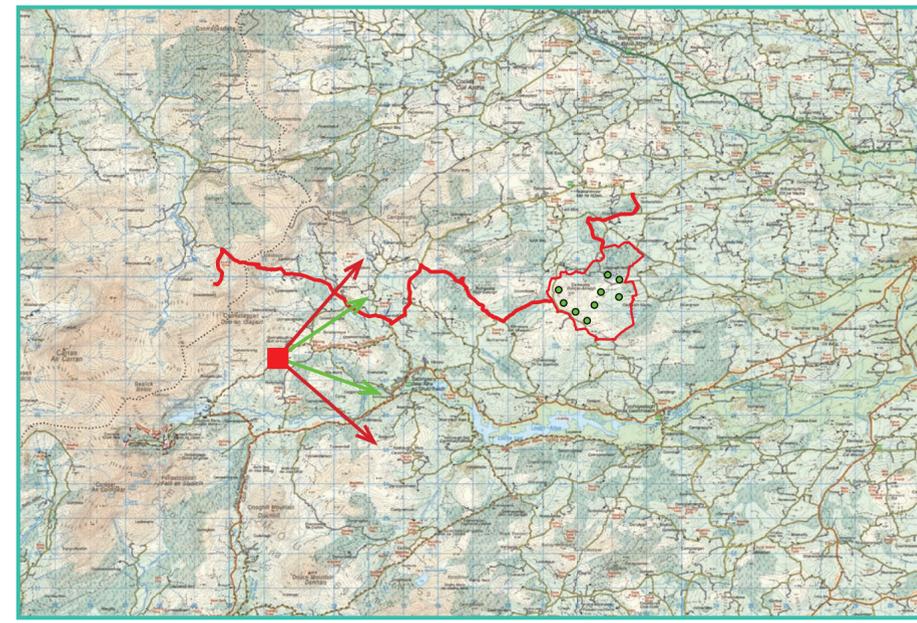
Photomontage 8

View Point: Local road in townland of Gortnaloughra, approximately 8.32 kilometres southwest of nearest turbine location. Located on Scenic Route 27.

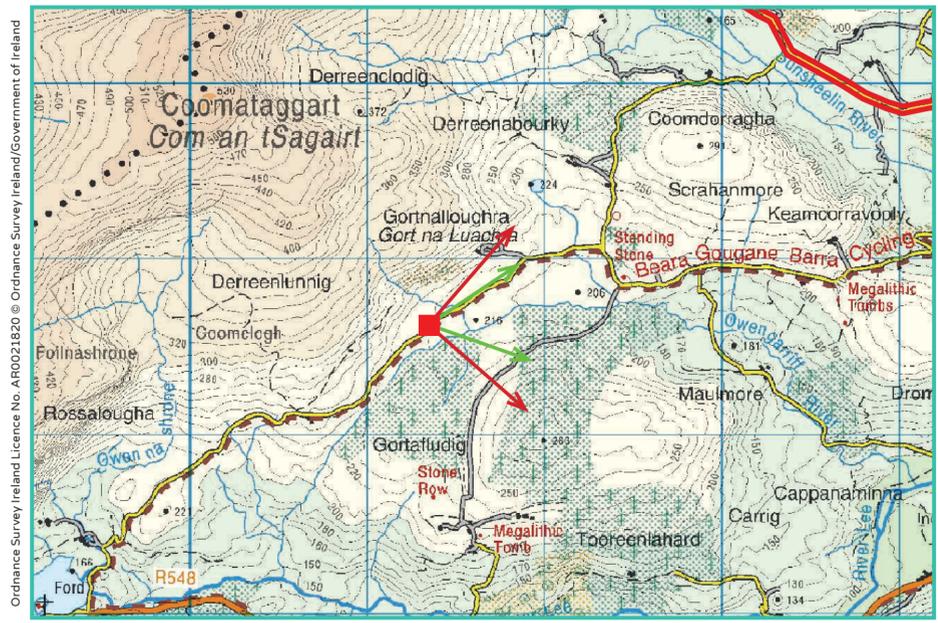
View point grid reference	111,366(E); 67,623(N)
Date of image taken	02.05.2020
Time of image taken	2.20pm
View point elevation	221m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	86°
Horizontal extent of proposed turbines	7°
Distance to nearest proposed turbine	8.3km (T6)
Number of proposed turbines visible	7/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
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Website: www.mkofireland.ie



90° View Extent



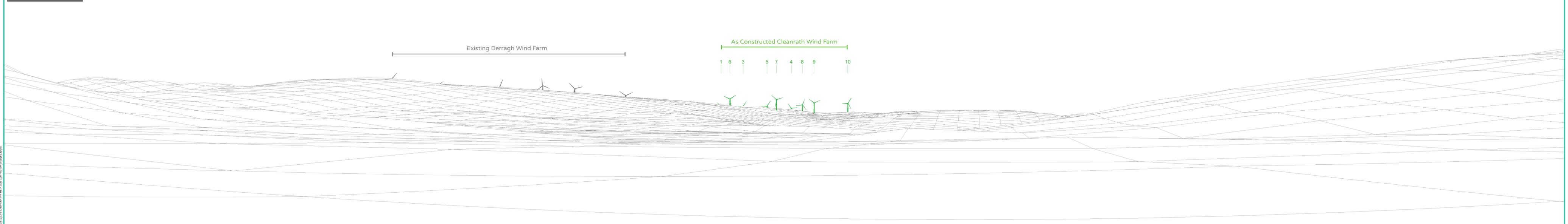
Key Image at 120°

53.5° View Extent

191223 - Cleanrath W/F REA Sub-Cont Photomontage Layout



Matching Wireframe



Cumulative Photomontage 53.5°



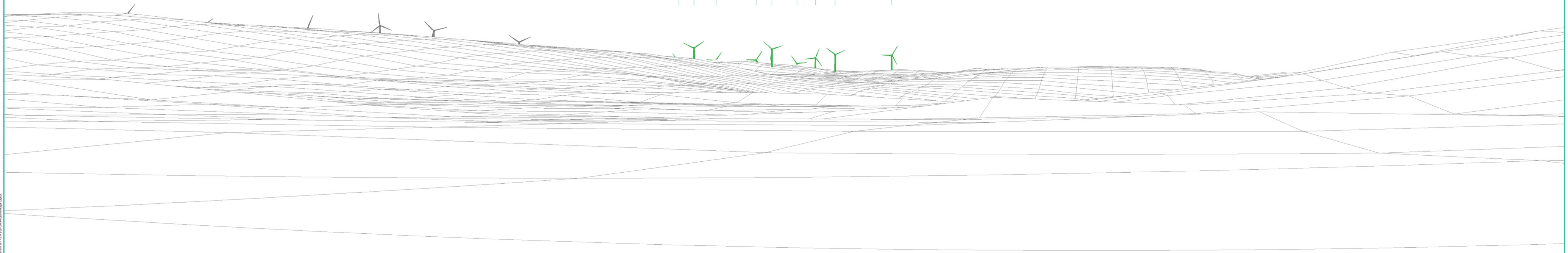
191223-01-Chemnitz-WF-PBA_Sup_Cum-Photomontage-Land

Matching Wireframe

Existing Derragh Wind Farm

As Constructed Cleanrath Wind Farm

- 1
- 6
- 3
- 5
- 7
- 4
- 8
- 9
- 10



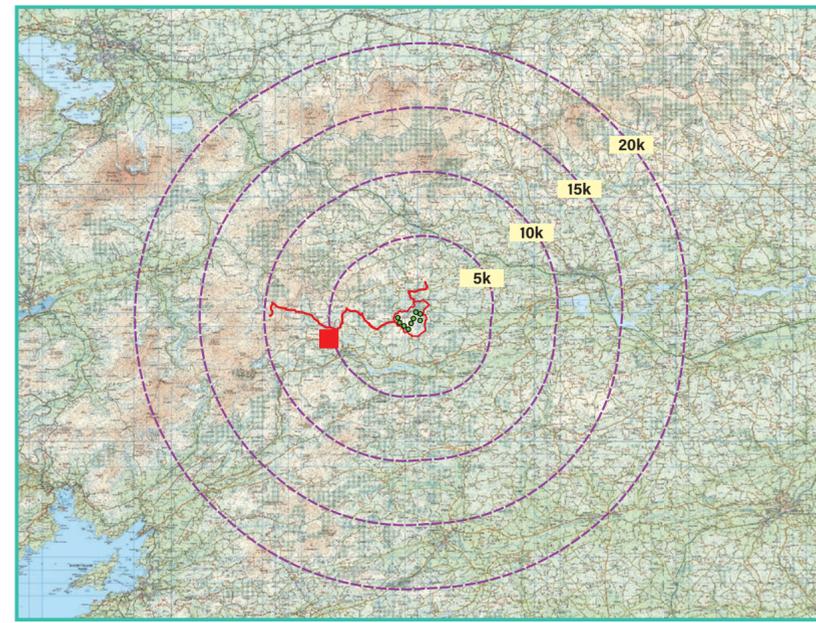
Keamcorravooly

View Point PL9

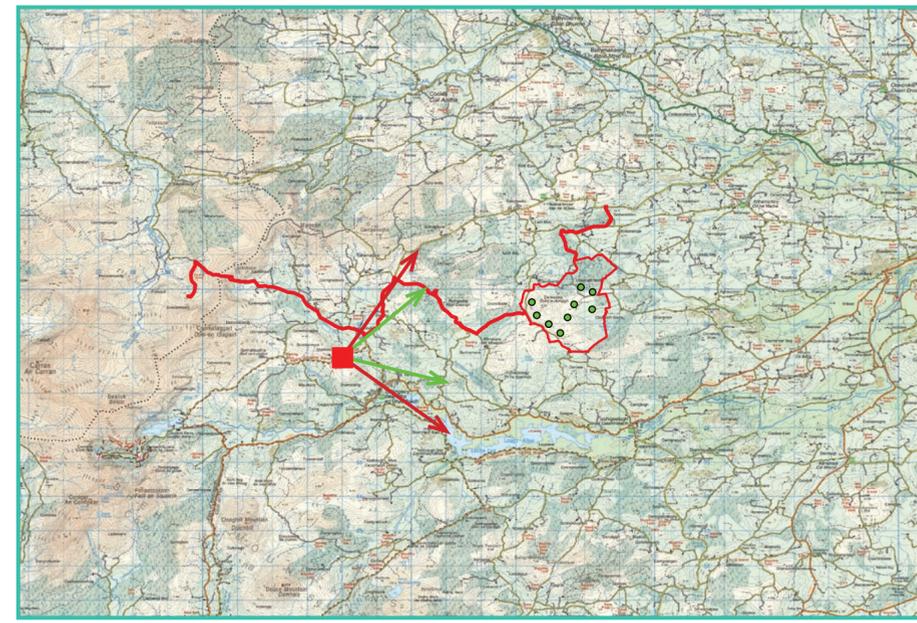
Photomontage 9

View Point: Local road in townland of Keamcorravooly, approximately 5.72 kilometres southwest of nearest proposed turbine location.

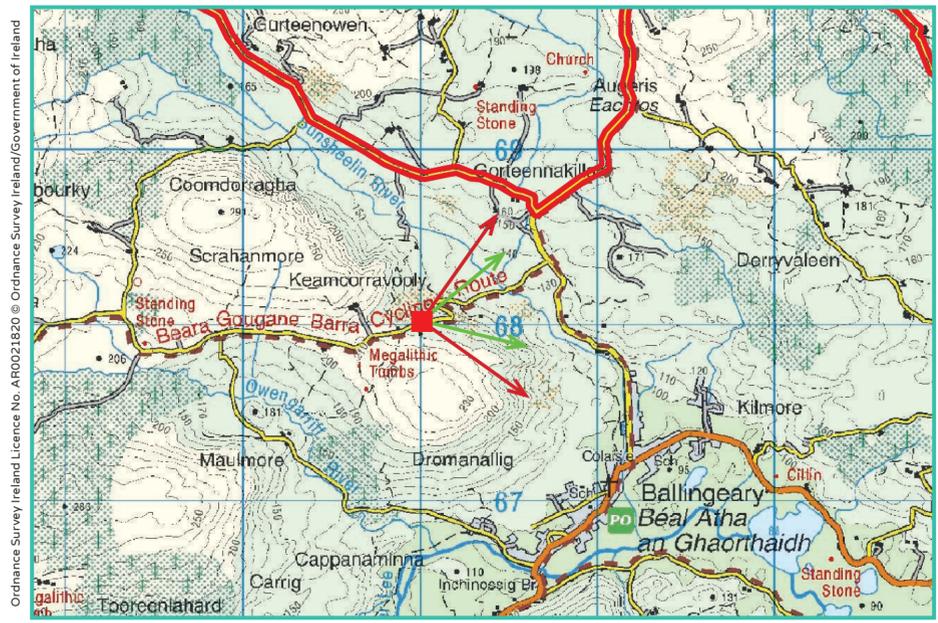
View point grid reference	113,972(E); 68,000(N)
Date of image taken	02.05.2020
Time of image taken	2.40pm
View point elevation	187m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	80°
Horizontal extent of proposed turbines	10°
Distance to nearest proposed turbine	5.7km (T6)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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 Tuam Road, Galway.

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 E-mail: info@mkofireland.ie
 Website: www.mkofireland.ie



90° View Extent

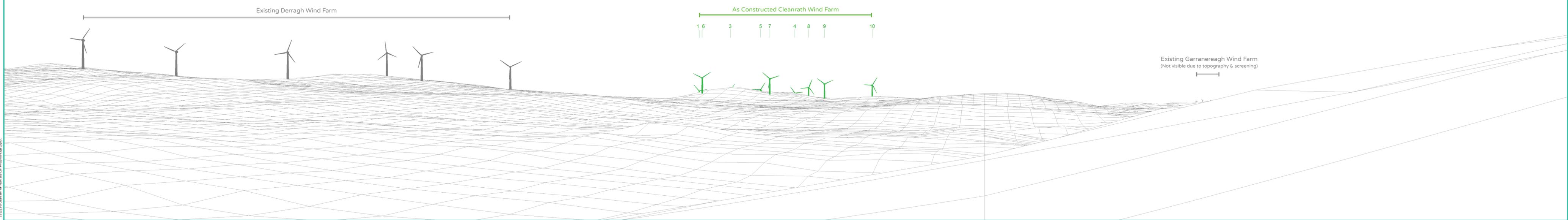


Key Image at 120°

53.5° View Extent

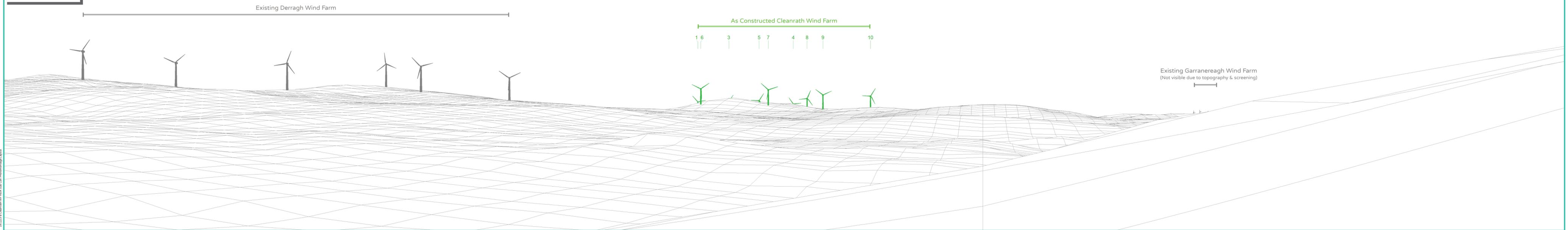


Matching Baseline Wireframe





Matching Wireframe





Cumulative Photomontage 53.5°

191223 - 01 - Clearwell Wind Farm, Site Specific Photomontage Layout

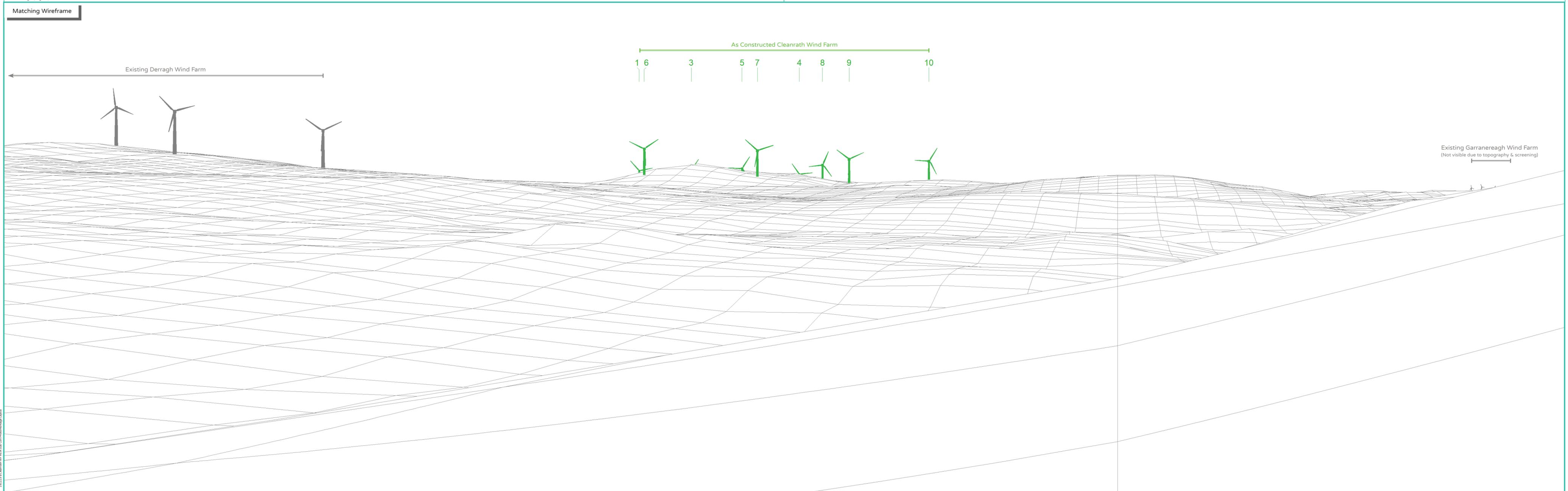
Matching Wireframe

Existing Derragh Wind Farm

As Constructed Cleanrath Wind Farm

1	6	3	5	7	4	8	9	10
---	---	---	---	---	---	---	---	----

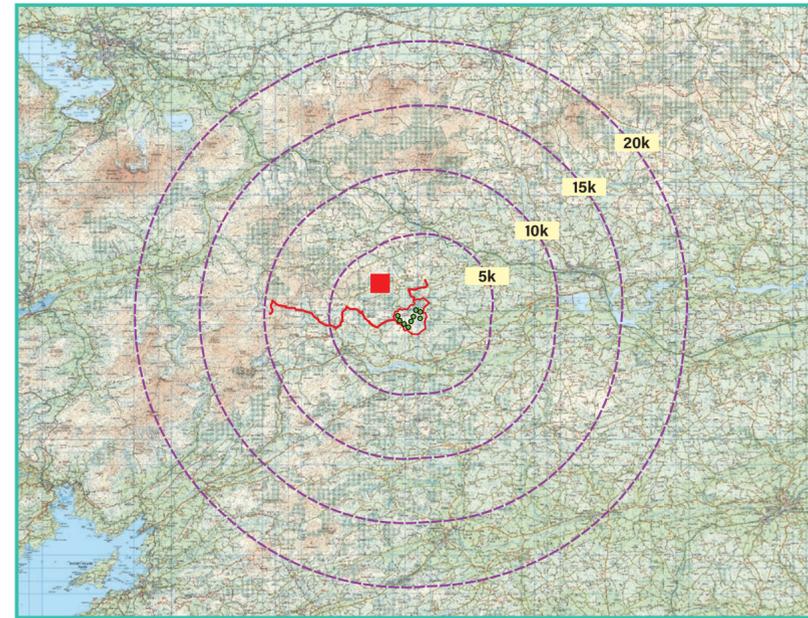
Existing Garranereagh Wind Farm
(Not visible due to topography & screening)



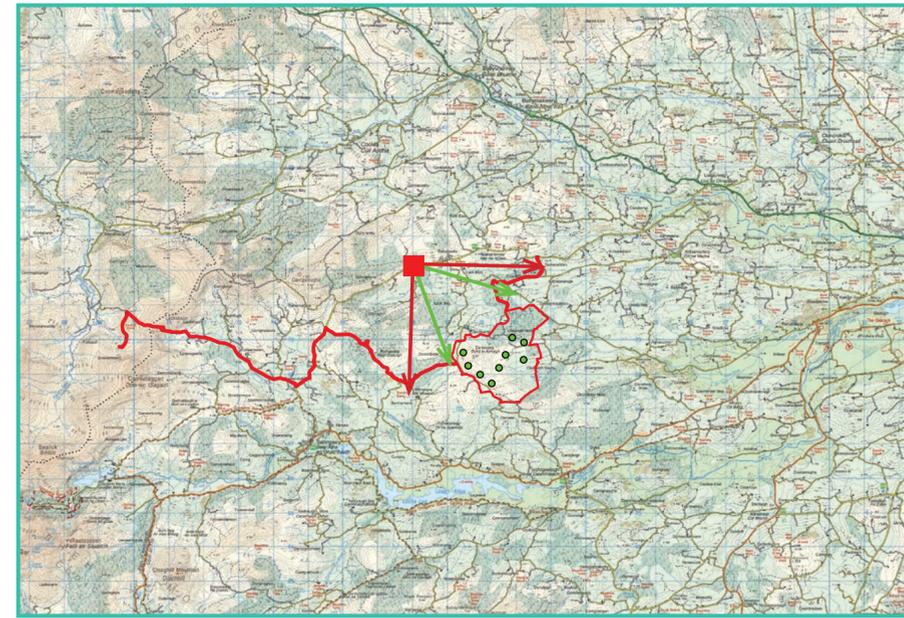
Photomontage 10

View Point: Local road in townland of Derryfineen, approximately 2.88 kilometres northwest of nearest turbine location.

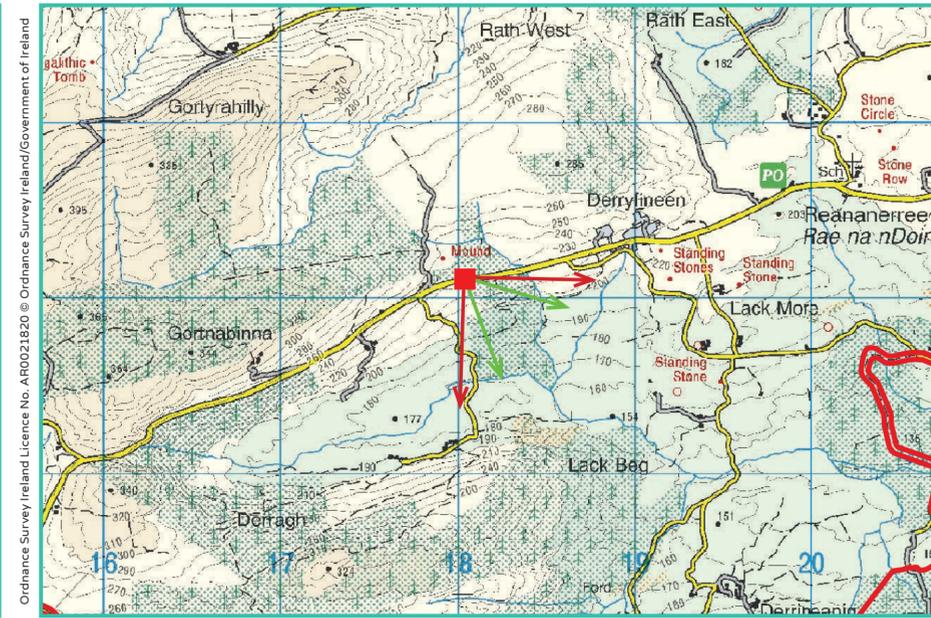
View point grid reference	117,987(E); 72,098(N)
Date of image taken	02.05.2020
Time of image taken	3.15pm
View point elevation	233m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	136°
Horizontal extent of proposed turbines	26°
Distance to nearest proposed turbine	2.8km (T1)
Number of proposed turbines visible	9/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
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 relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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 E-mail: info@mkofireland.ie
 Website: www.mkofireland.ie



90° View Extent

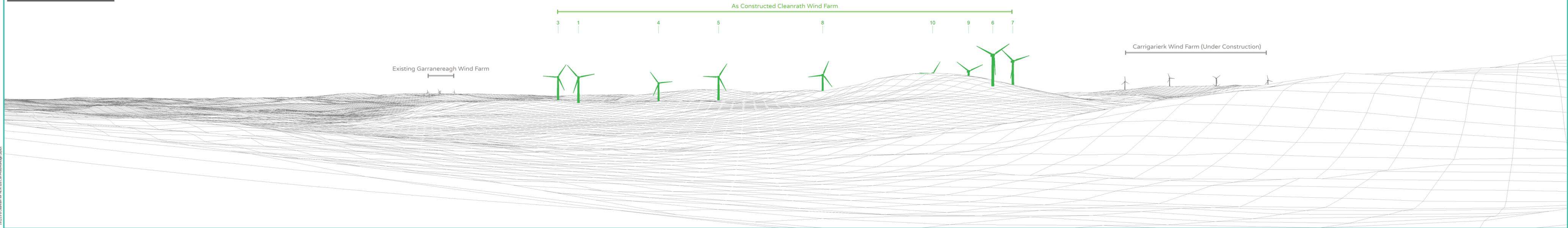
Key Image at 120°



53.5° View Extent

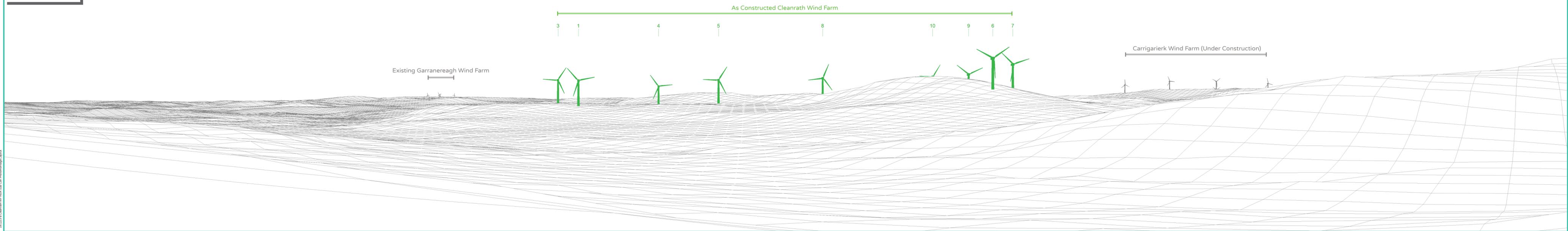


Matching Baseline Wireframe





Matching Wireframe

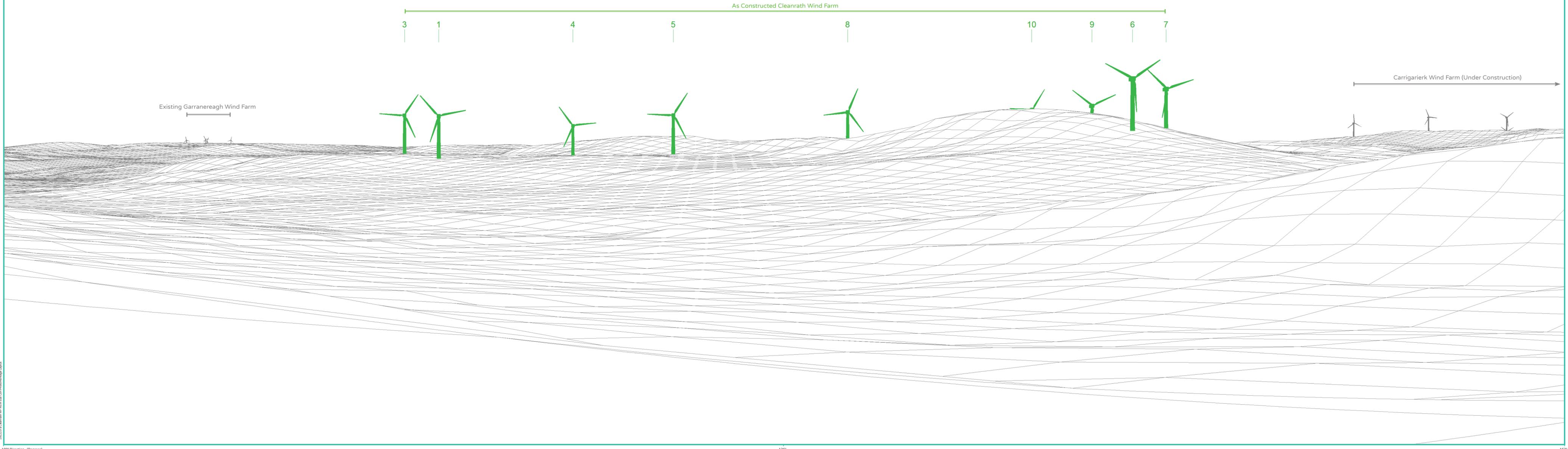


Cumulative Photomontage 53.5°



191223-01-Cherryhill-WF-PBA-Sub-Cum-Photomontage-Landsc

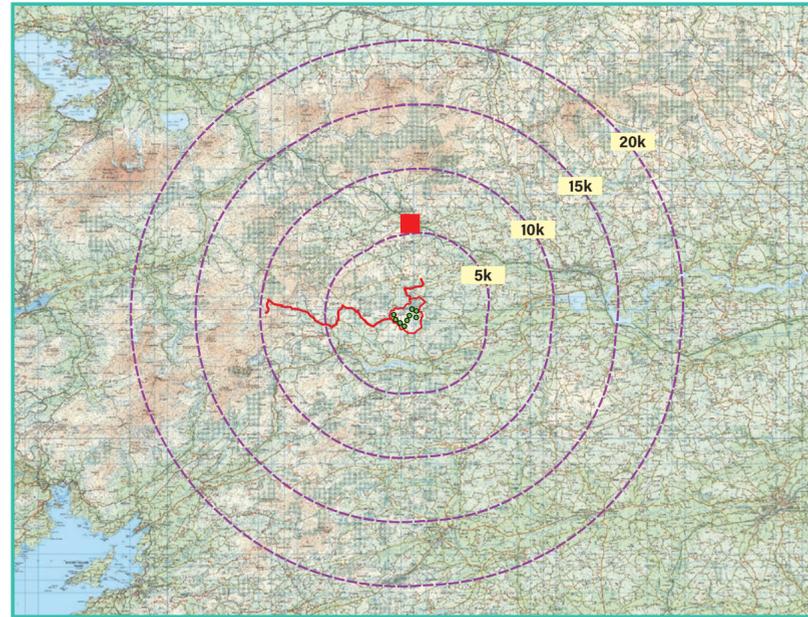
Matching Wireframe



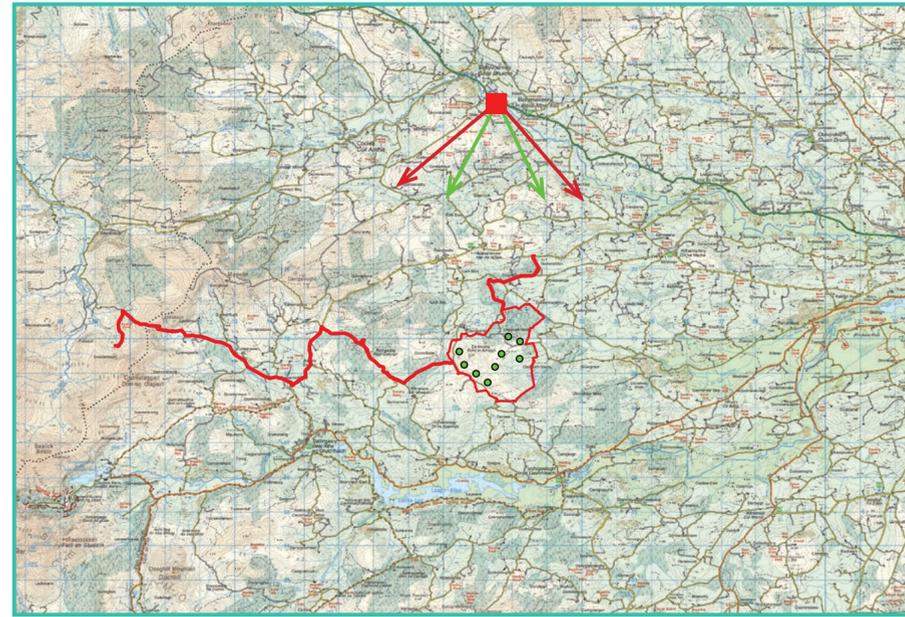
Photomontage 11

View Point: View from the N22 National Primary Road between Ballyvourney and Ballymakeery in the townland of Flats. The view is located on County Cork Scenic Route 23.

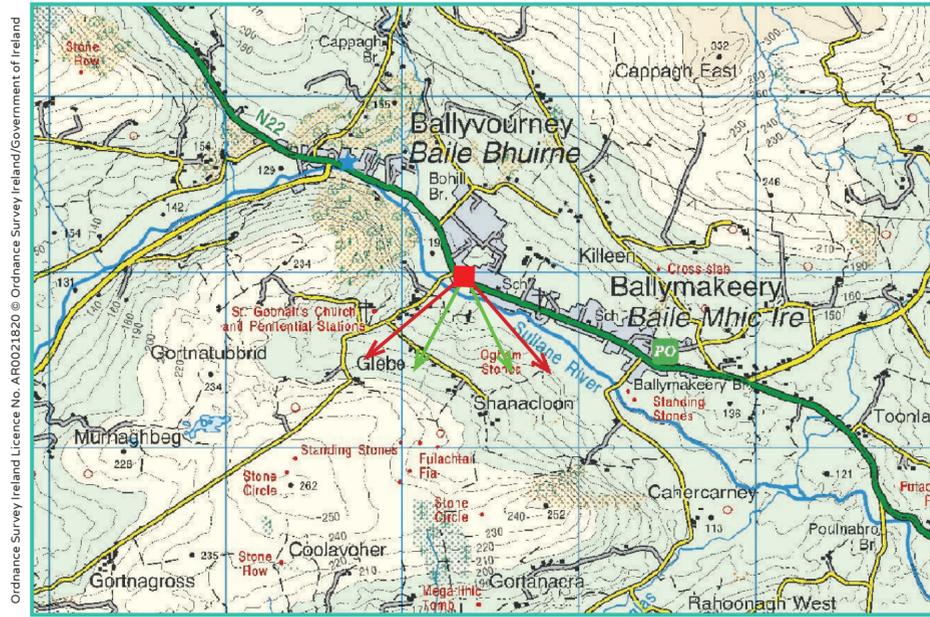
View point grid reference	120,373(E); 76,937(N)
Date of image taken	06.11.2011
Time of image taken	9.56pm
View point elevation	115m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	183°
Horizontal extent of proposed turbines	16°
Distance to nearest proposed turbine	6.89km (T3)
Number of proposed turbines visible	0/9
Turbine Hub Height	91m
Turbine Tip Height	149.5m
Turbine Rotor Diameter	117m
Camera	IDS mk3 DSLR
Lens	50mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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View point relative to 20km radius.



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



Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Site Boundary

Wireframe Legend

- As Constructed Cleanrath Wind Farm in Green
- Proposed Wind Farm in Blue
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

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E-mail: info@mkoireland.ie
Website: www.mkoireland.ie



90° View Extent

Key Image at 120°

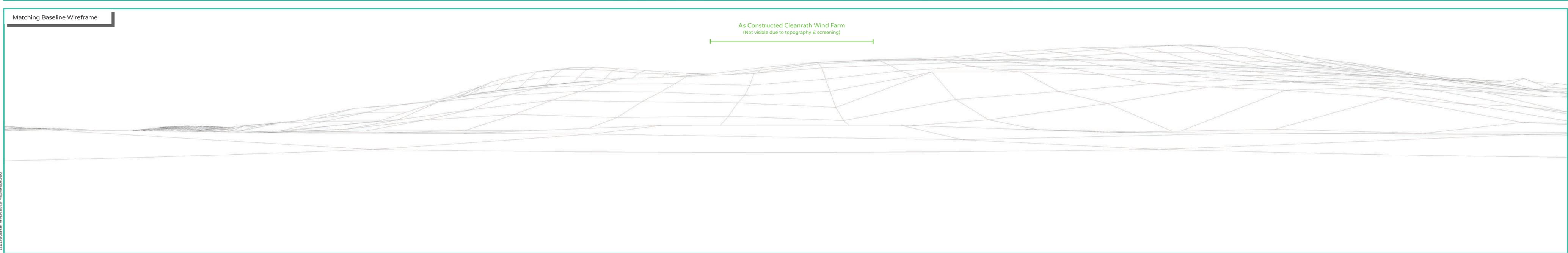


53.5° View Extent



Matching Baseline Wireframe

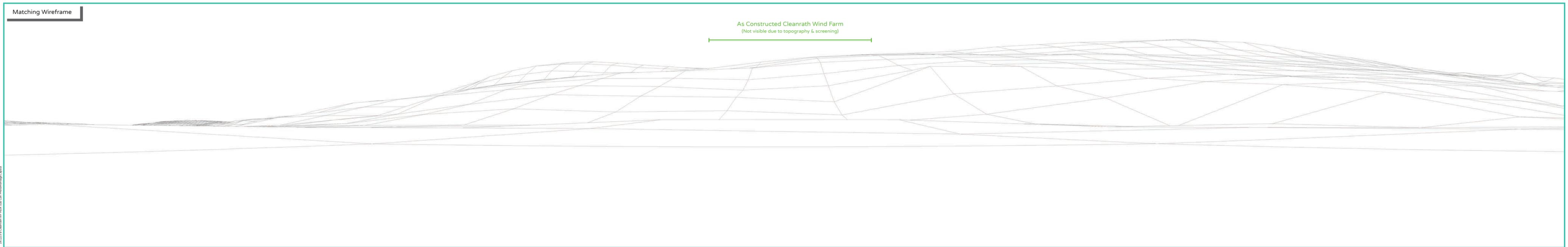
As Constructed Cleanrath Wind Farm
 (Not visible due to topography & screening)





Matching Wireframe

As Constructed Cleanrath Wind Farm
 (Not visible due to topography & screening)



0° Included Angle (Degrees)

265°

53.5°

Matching Wireframe

As Constructed Cleanrath Wind Farm
(Not visible due to topography & screening)



1911233 - Cleanrath Wind Farm, Co. Wick, Ireland

109° Direction (Degrees)

183°

163°

