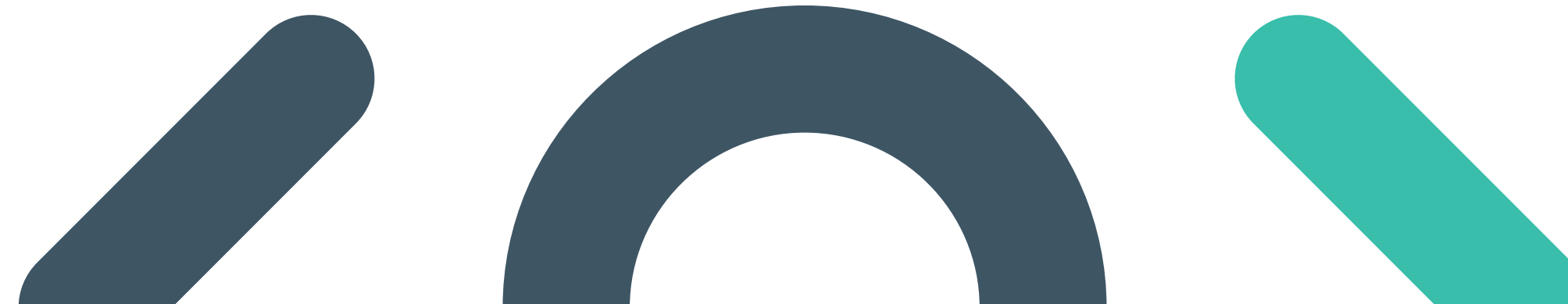


Cleanrath Wind Farm, Co. Cork
Volume 2

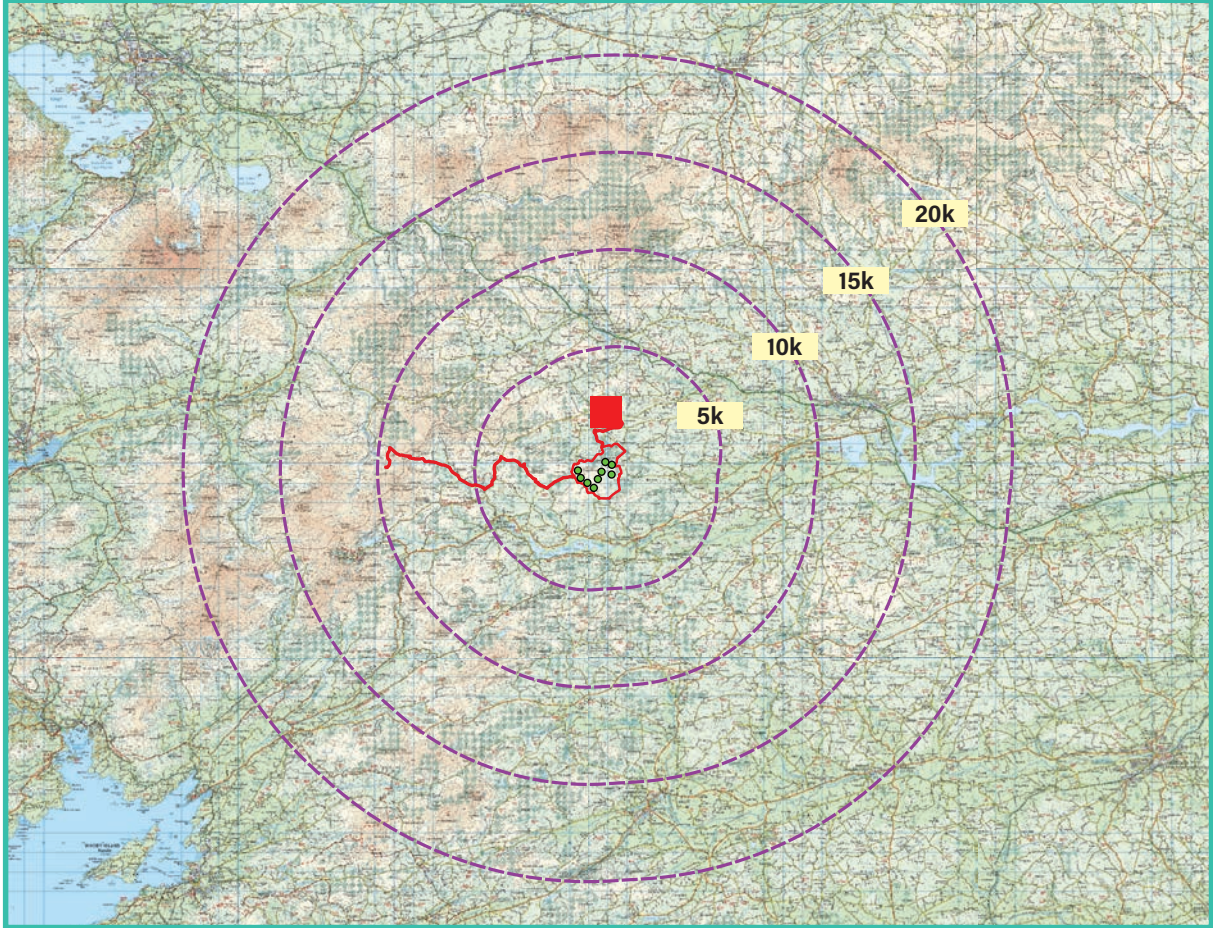
PHOTOMONTAGE BOOKLET



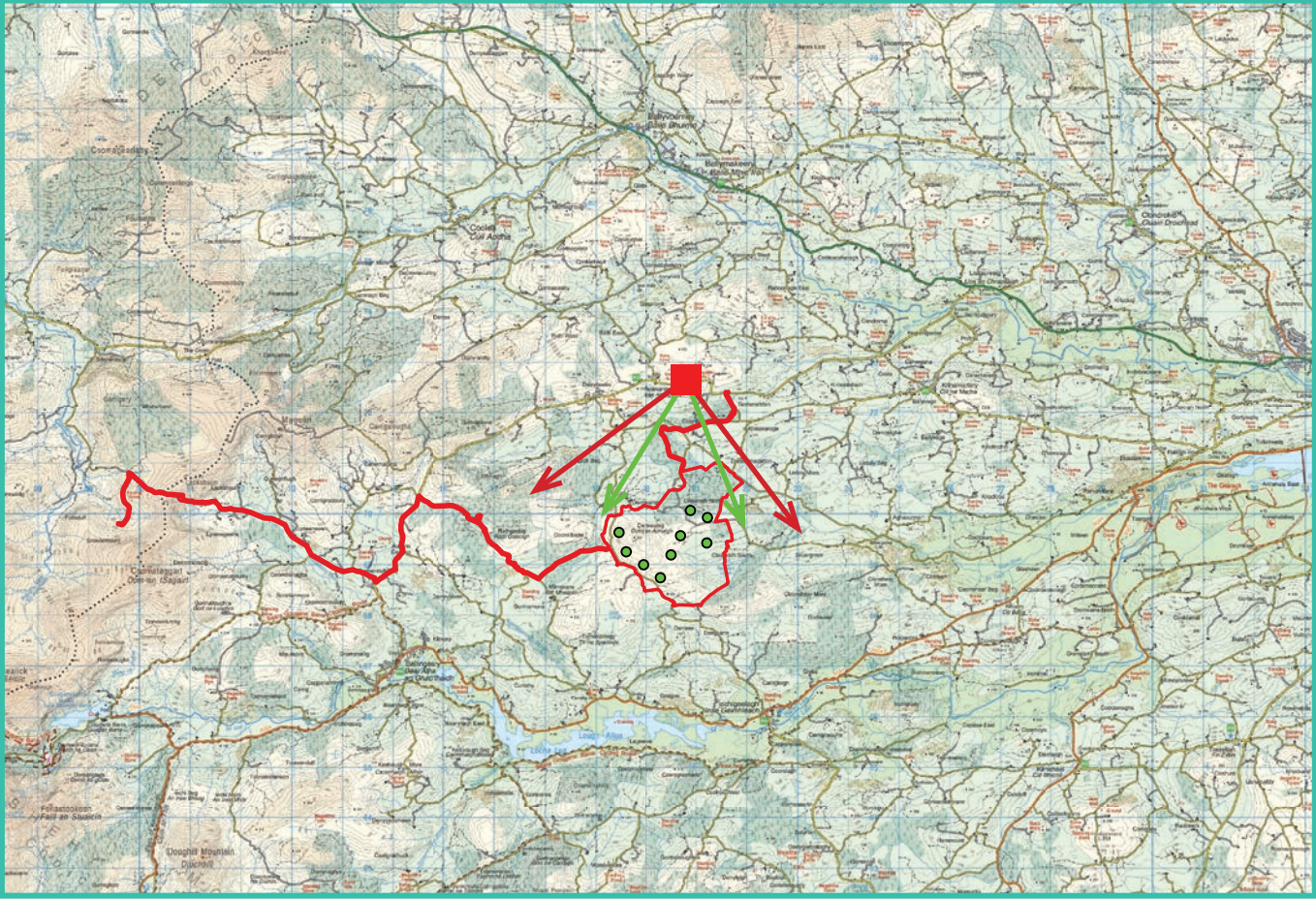
Photomontage 1

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

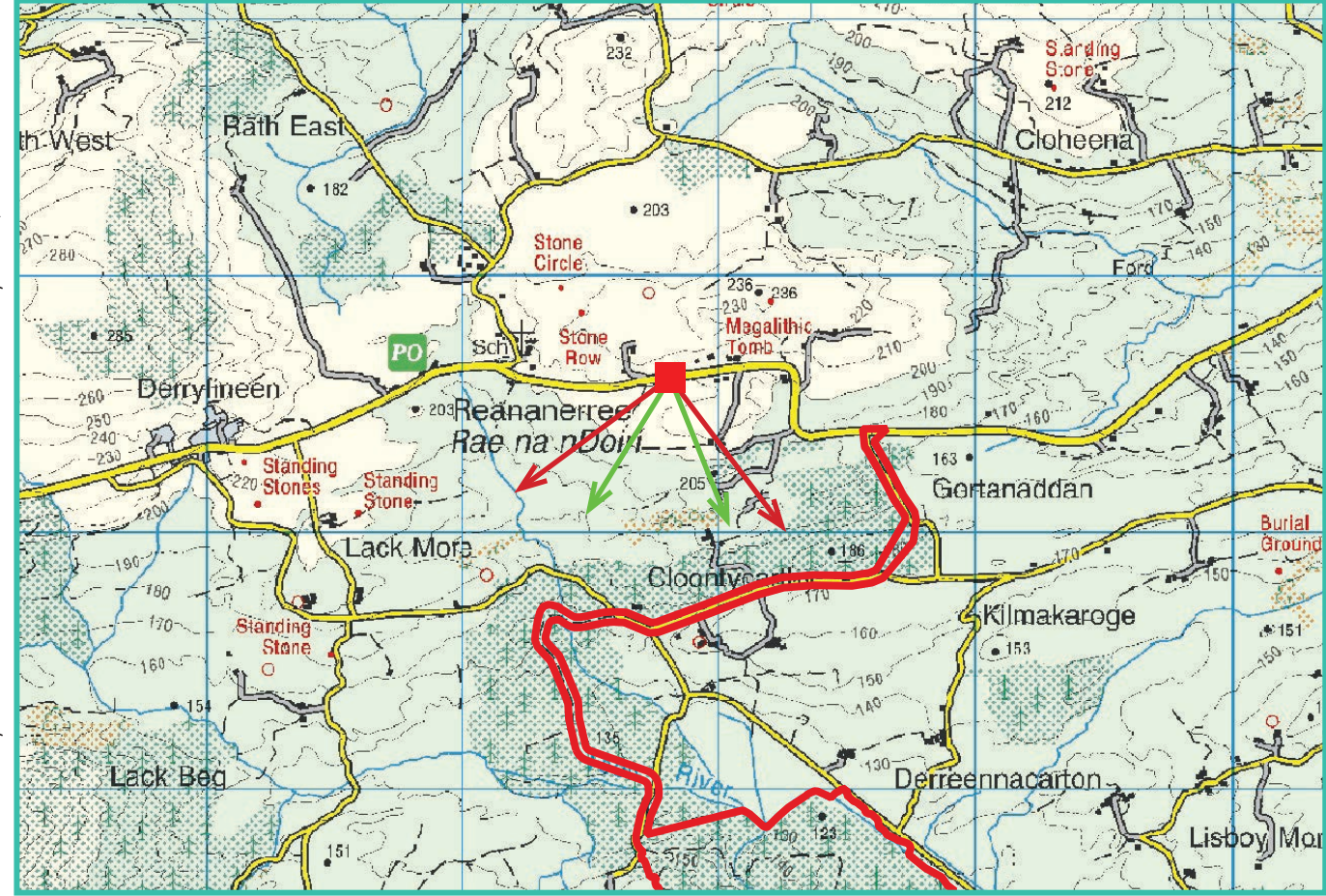
View point grid reference	120,814(E); 72,602(N)
Date of image taken	02.05.2020
Time of image taken	10.16am
View point elevation	203m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	187°
Horizontal extent of proposed turbines	28°
Distance to nearest proposed turbine	2.5km (T1)
Number of proposed 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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.

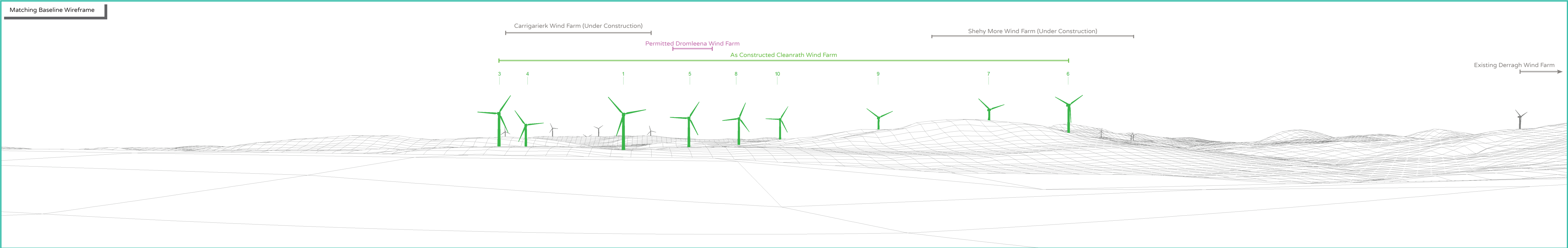
Tel: (091) 73 56 11
E-mail: info@mkofireland.ie
Website: www.mkofireland.ie



Baseline at 90°



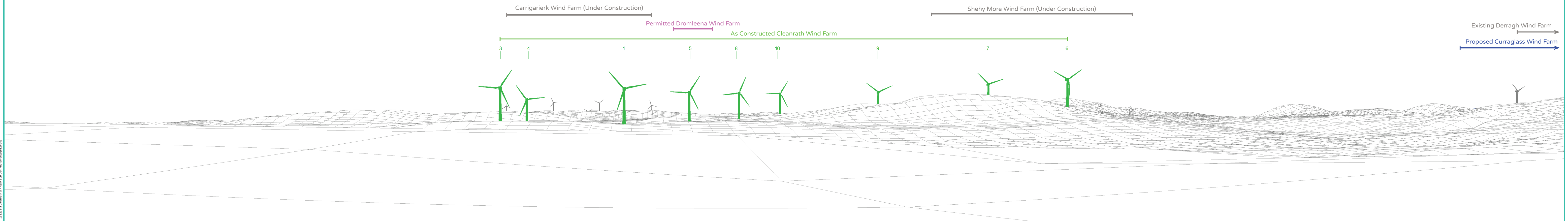
Matching Baseline Wireframe



Cumulative Photomontage 90°



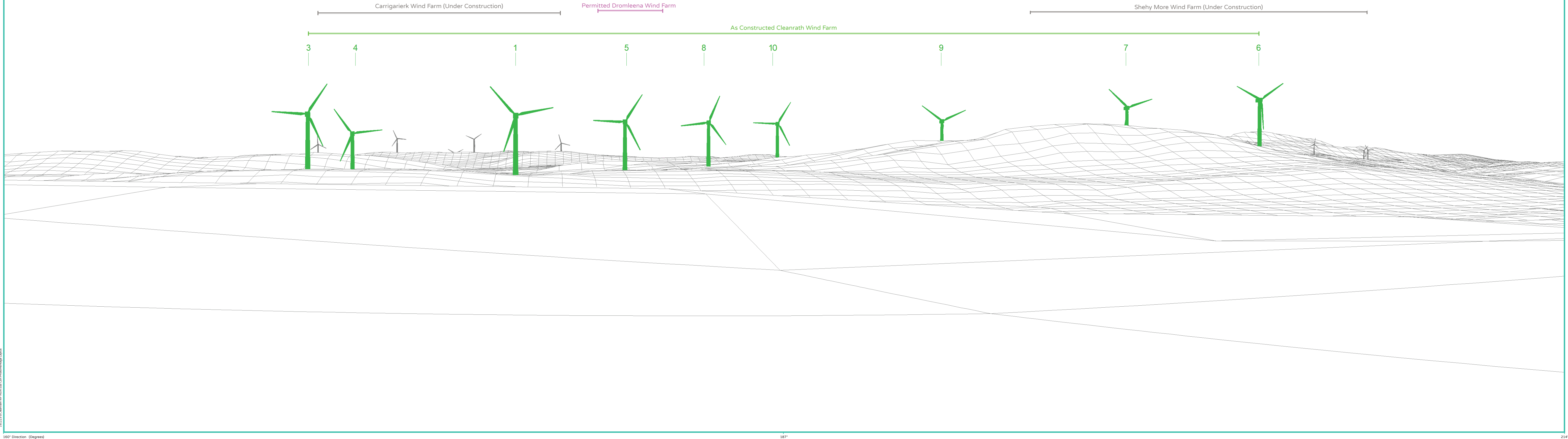
Matching Wireframe



Cumulative Photomontage 53.5°



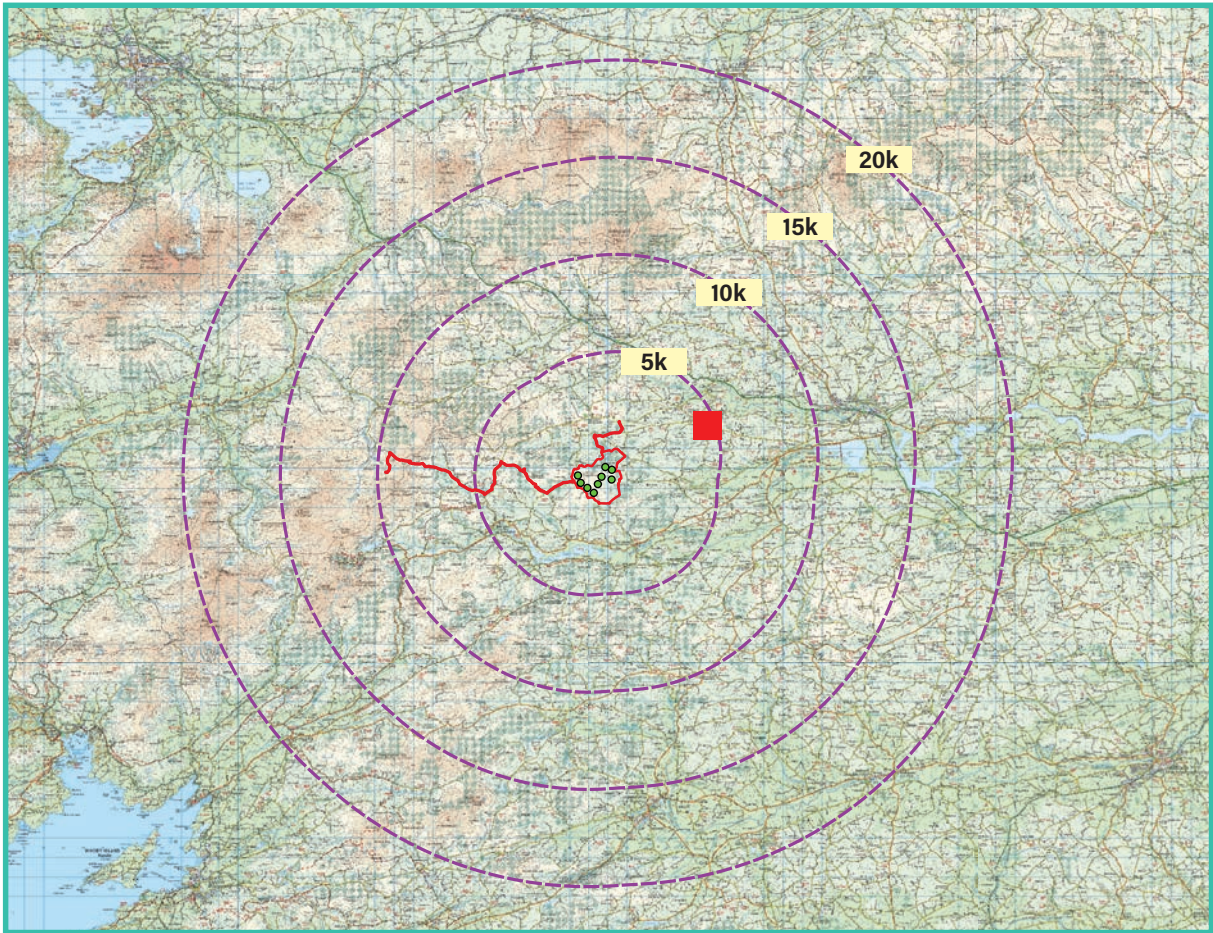
Matching Wireframe



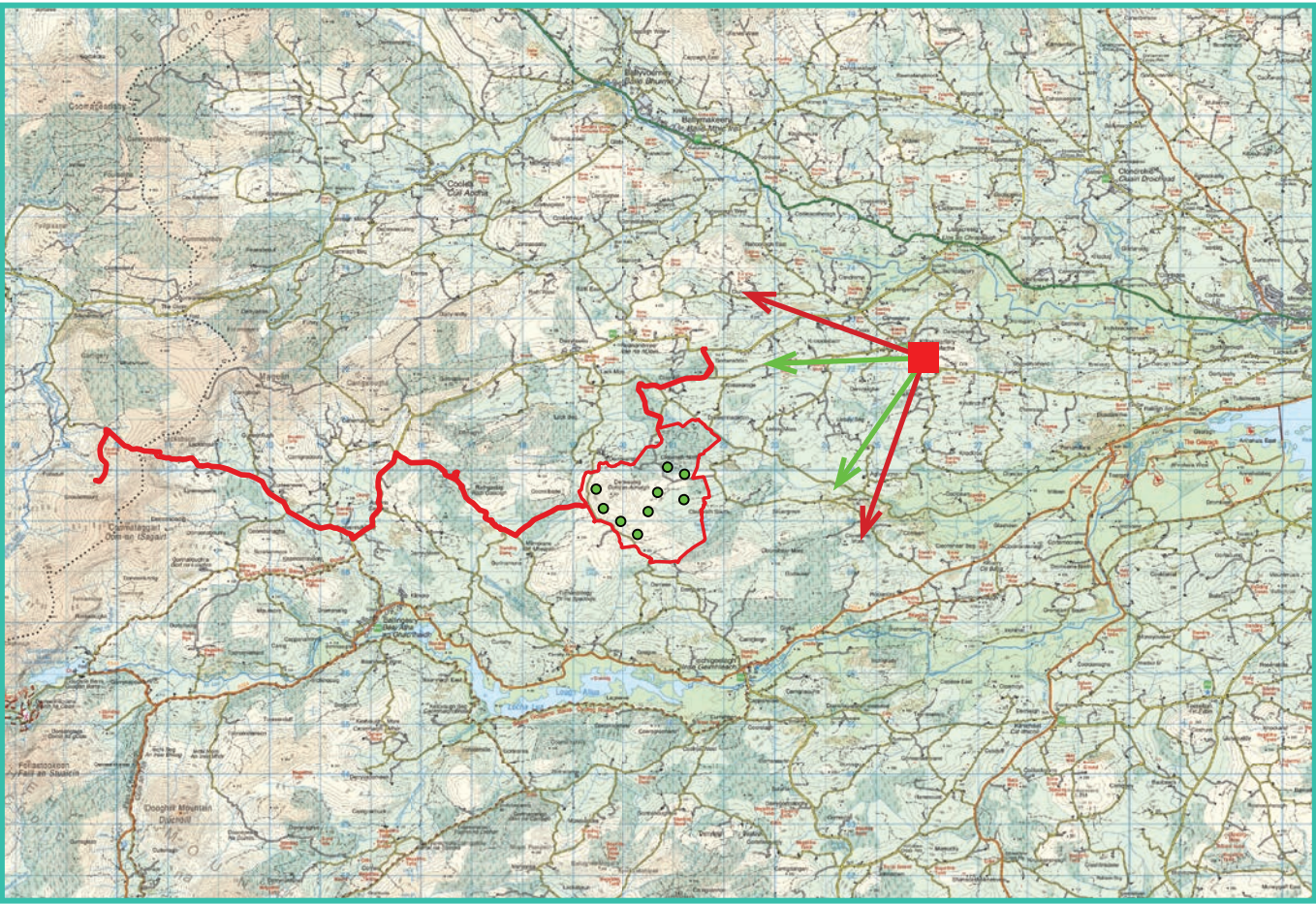
Photomontage 2

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

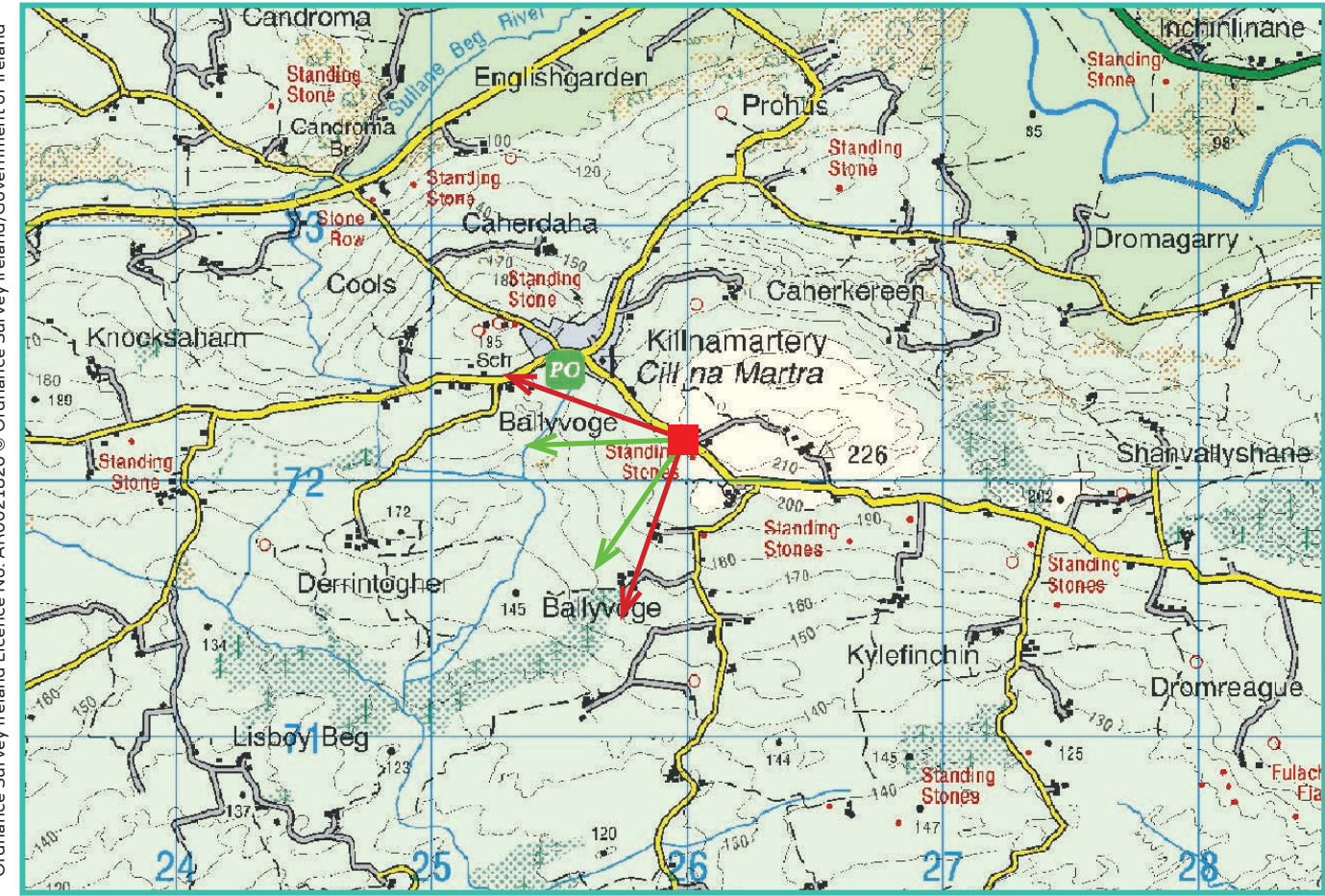
View point grid reference	126,029(E); 72,141(N)
Date of image taken	02.05.2020
Time of image taken	10.45am
View point elevation	210m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	244°
Horizontal extent of proposed turbines	10°
Distance to nearest proposed turbine	5.2km (T3)
Number of proposed 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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.

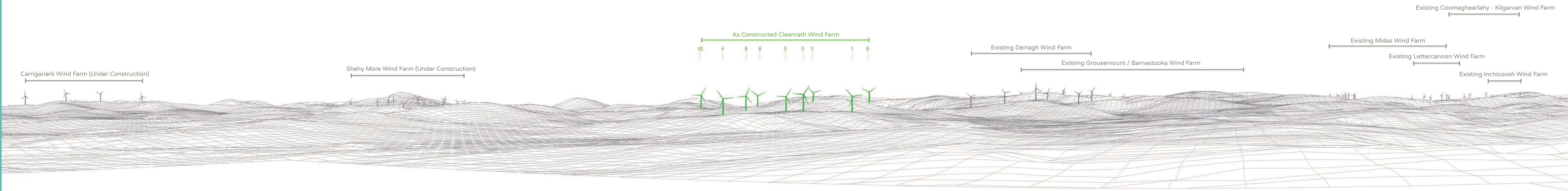
Tel: (091) 73 56 11
E-mail: info@mkoireland.ie
Website: www.mkoireland.ie



Baseline at 90°

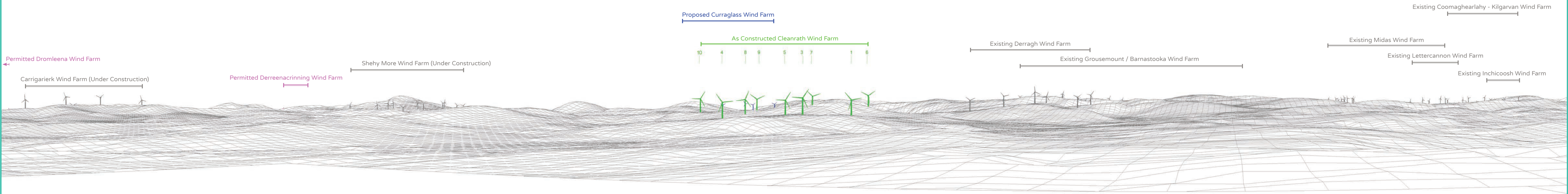


Matching Baseline Wireframe





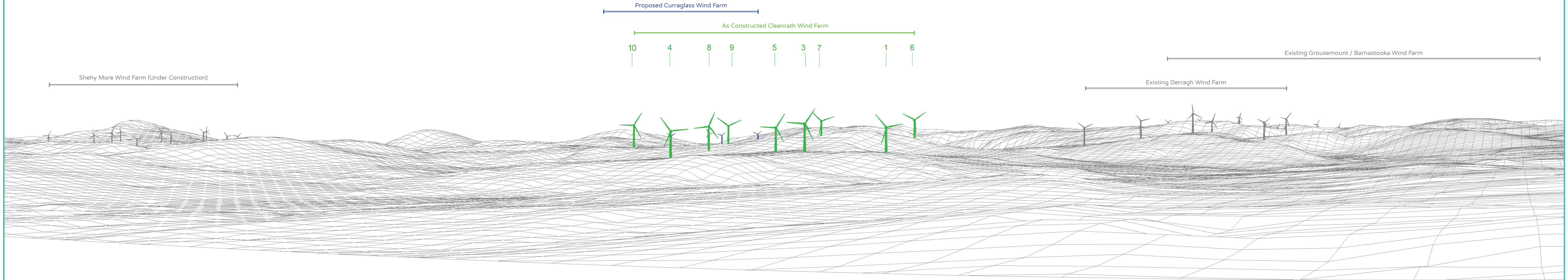
Matching Wireframe



Cumulative Photomontage 53.5°



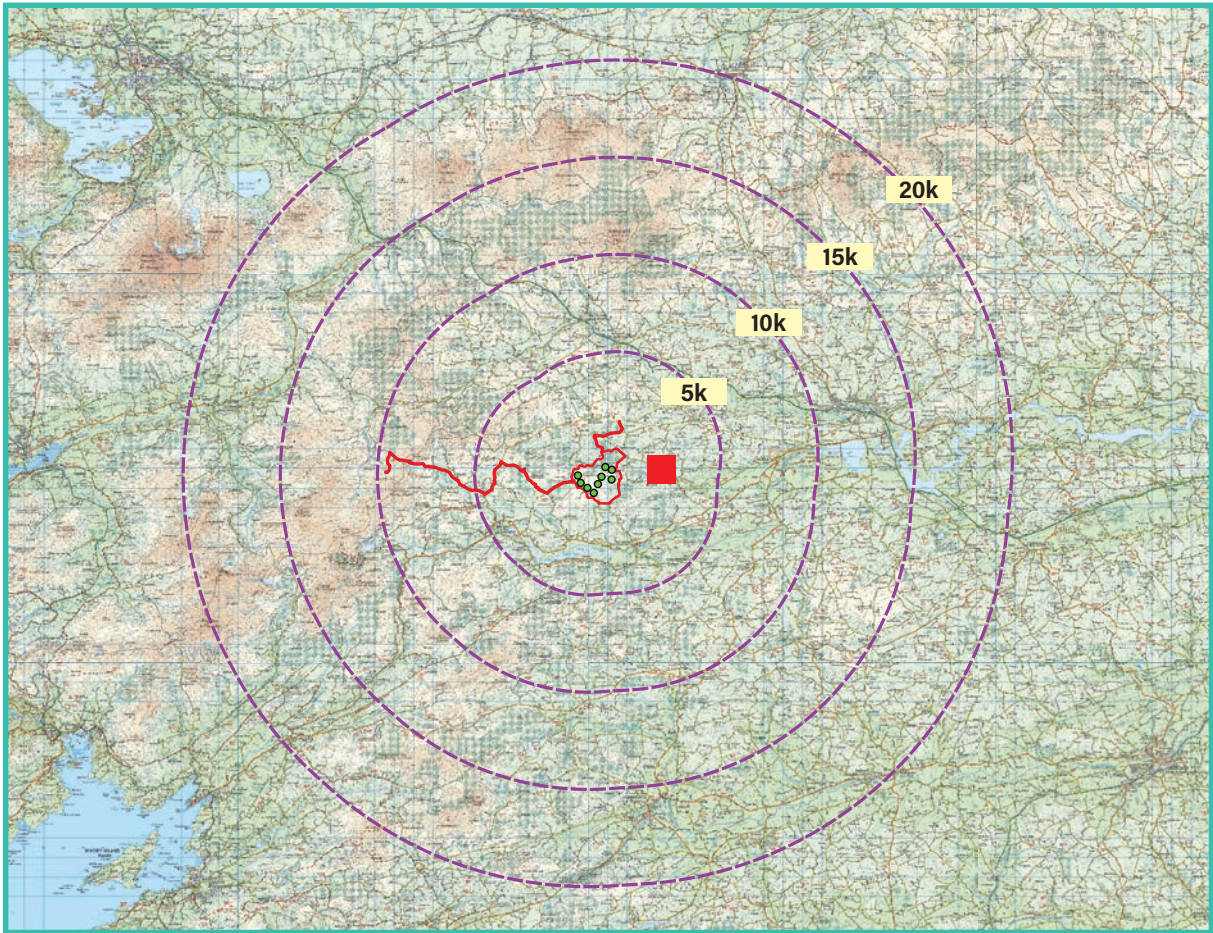
Matching Wireframe



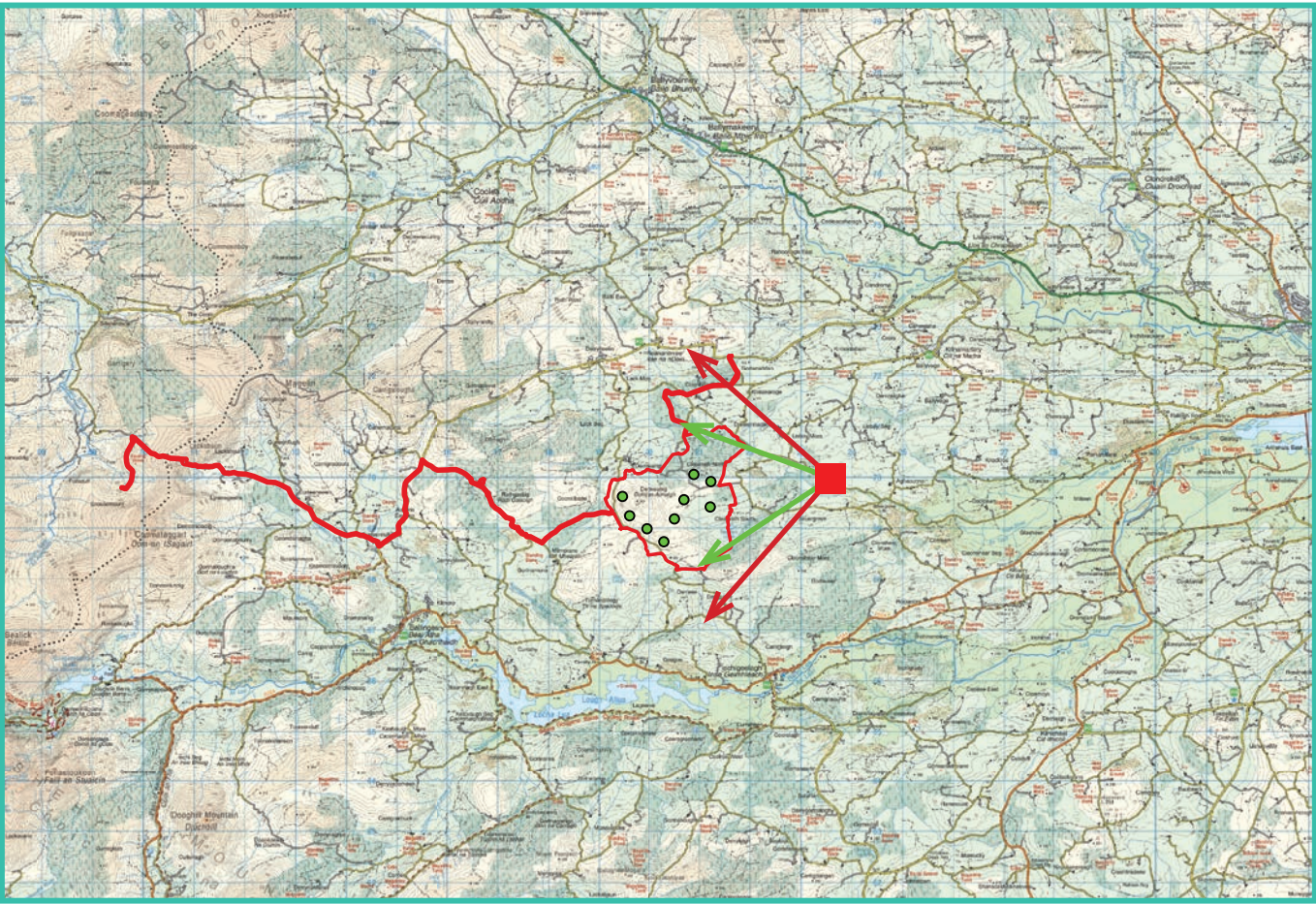
Photomontage 3

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

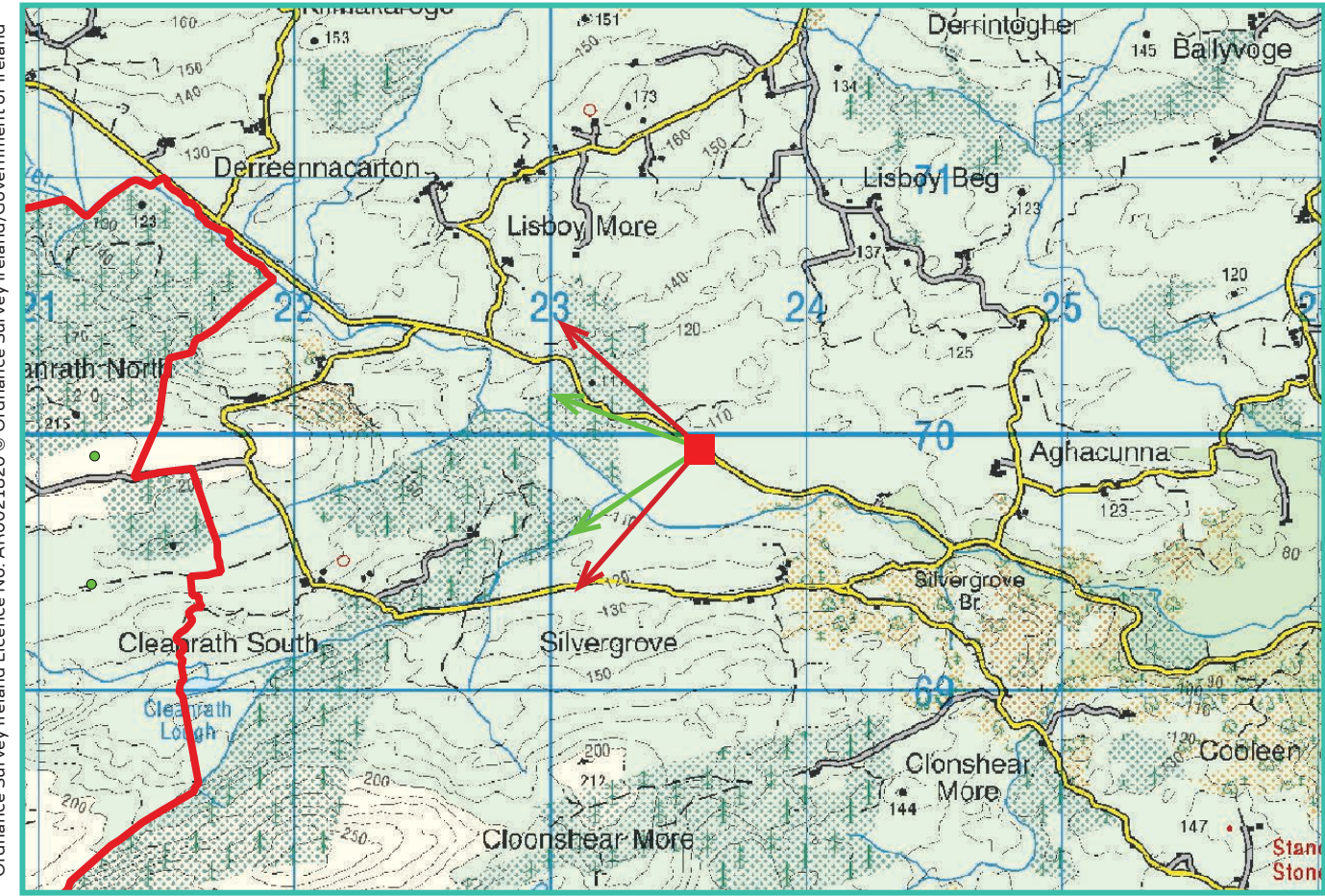
View point grid reference	123,619(E); 69,924(N)
Date of image taken	02.05.2020
Time of image taken	11.15am
View point elevation	108m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	266°
Horizontal extent of proposed turbines	22°
Distance to nearest proposed turbine	2.4km (T3)
Number of proposed 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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.
Tel: (091) 73 56 11
E-mail: info@mkofireland.ie
Website: www.mkofireland.ie



90° View Extent

Key Image at 120°

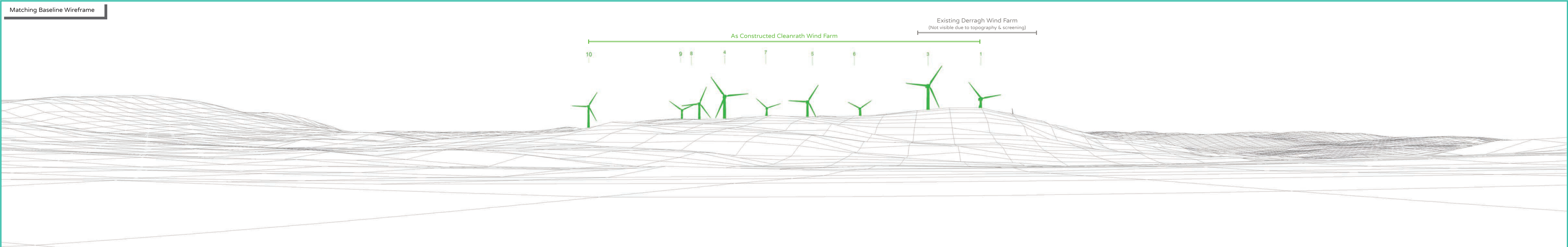


53.5° View Extent

Baseline at 90°



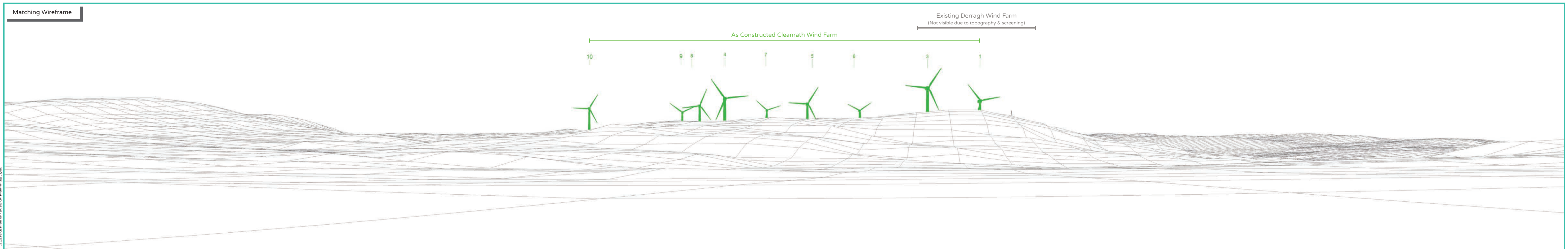
Matching Baseline Wireframe



Cumulative Photomontage 90°



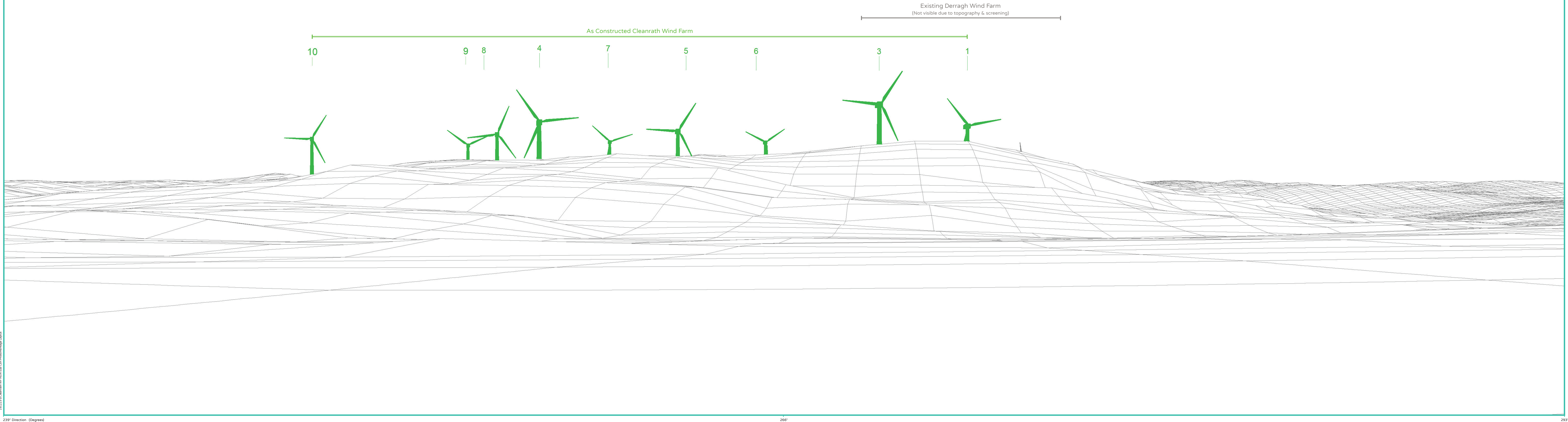
Matching Wireframe



Cumulative Photomontage 53.5°



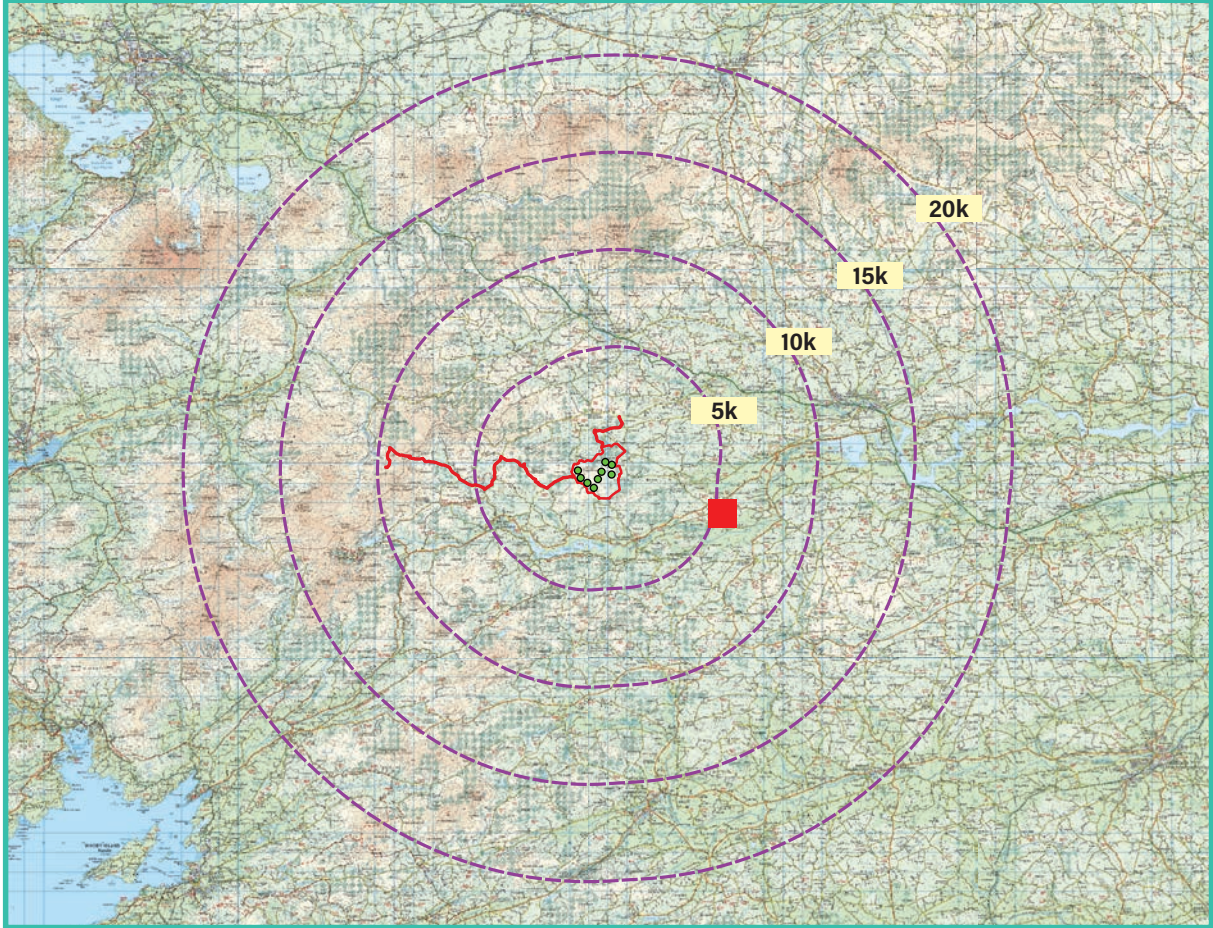
Matching Wireframe



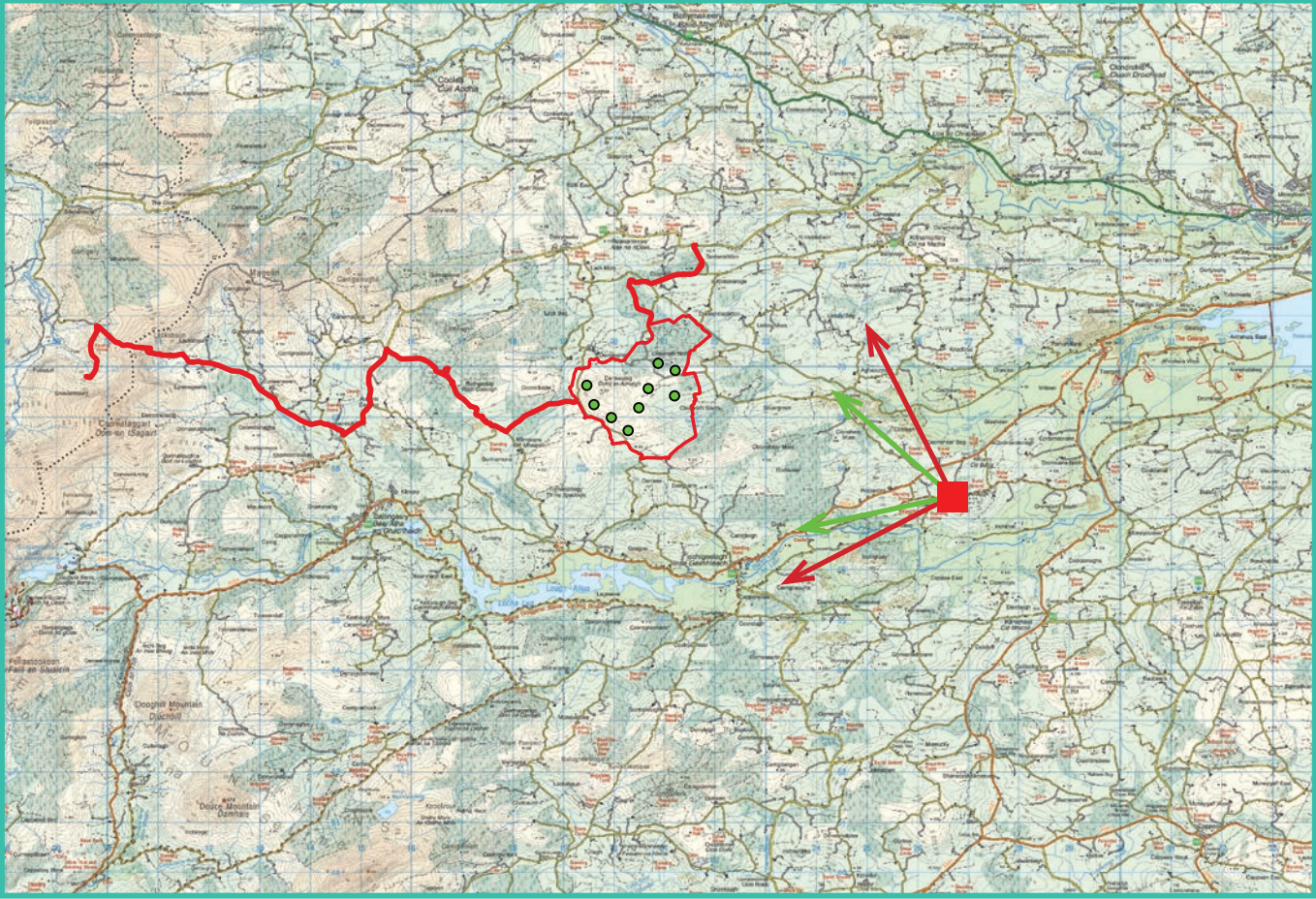
Photomontage 4

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

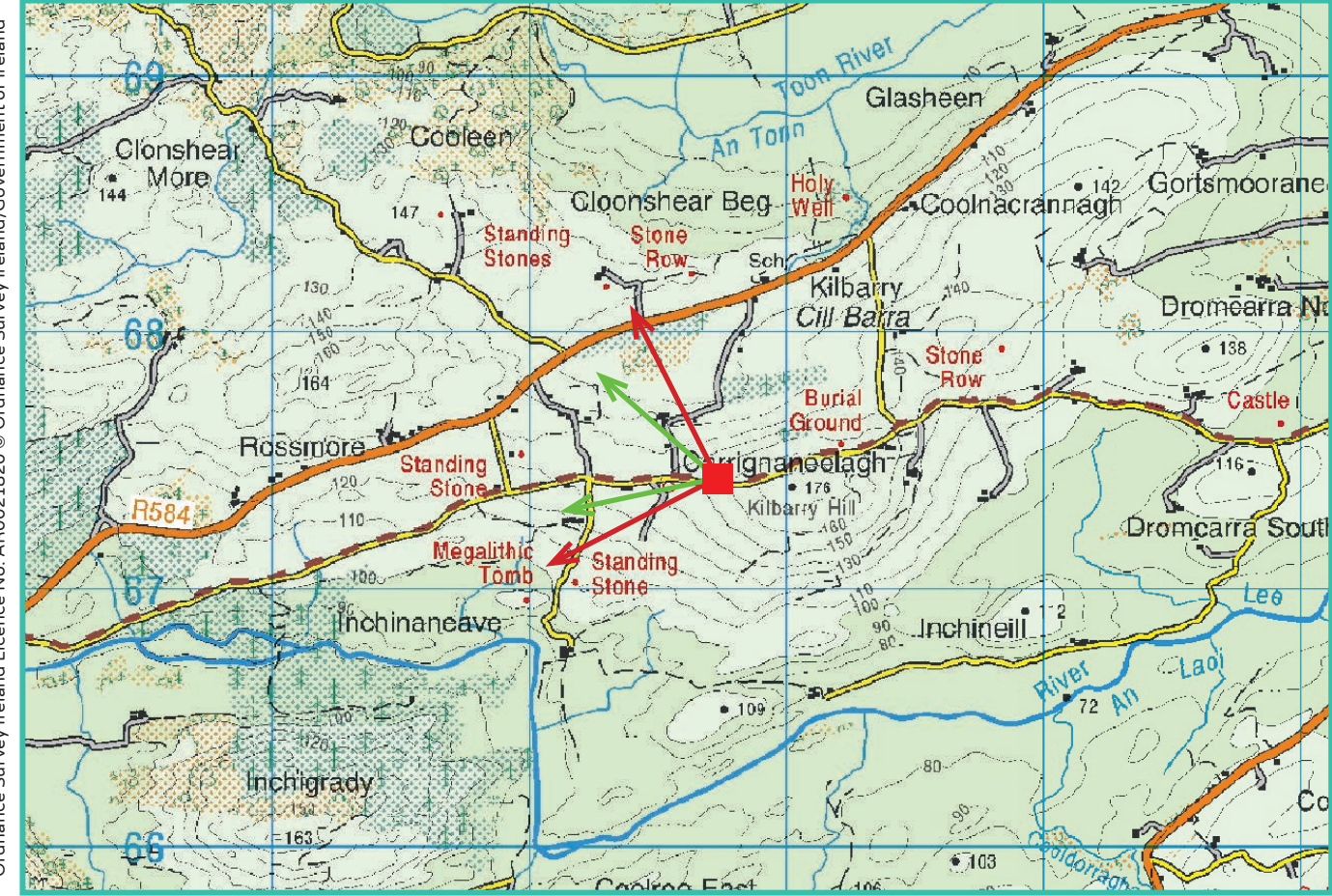
View point grid reference	126,832(E); 67,409(N)
Date of image taken	02.05.2020
Time of image taken	11.47am
View point elevation	164m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	288°
Horizontal extent of proposed turbines	13°
Distance to nearest proposed turbine	5.9km (T4)
Number of proposed 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

Prepared by

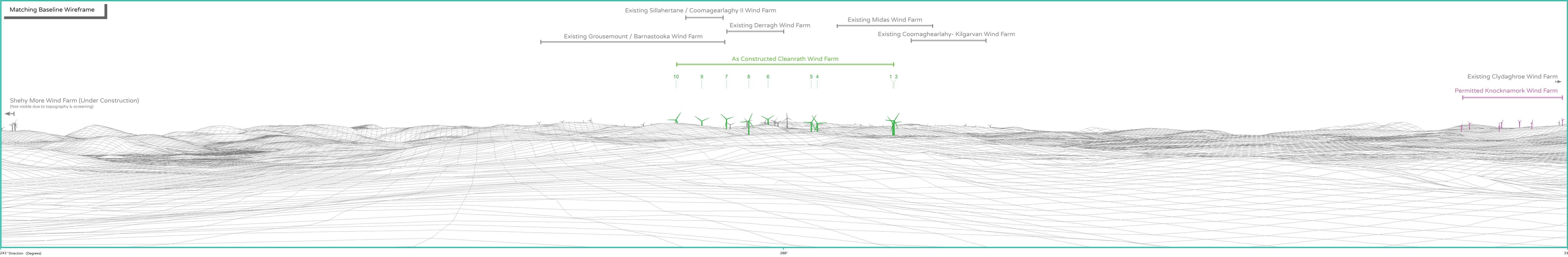
MKO
Planning & Environmental Consultants
Tuam Road, Galway.
Tel: (091) 73 56 11
E-mail: info@mkofireland.ie
Website: www.mkofireland.ie



Key Image at 120°



53.5° View Extent

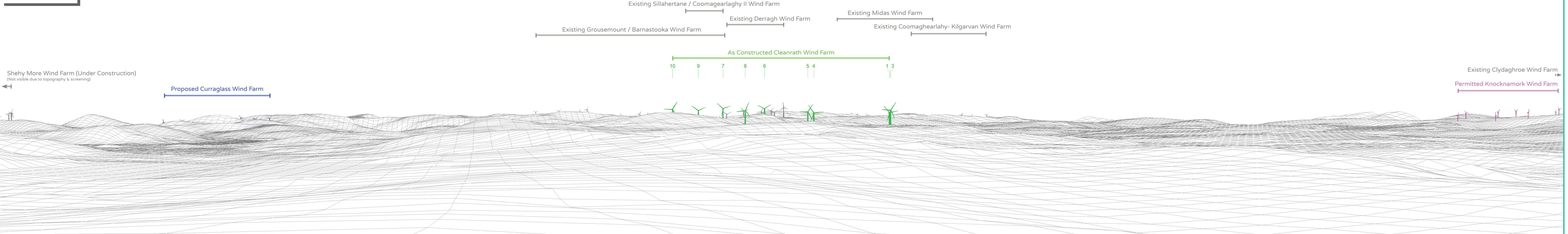


131223 - Cleanrath WP RegA Sub Con Photomontage Layout

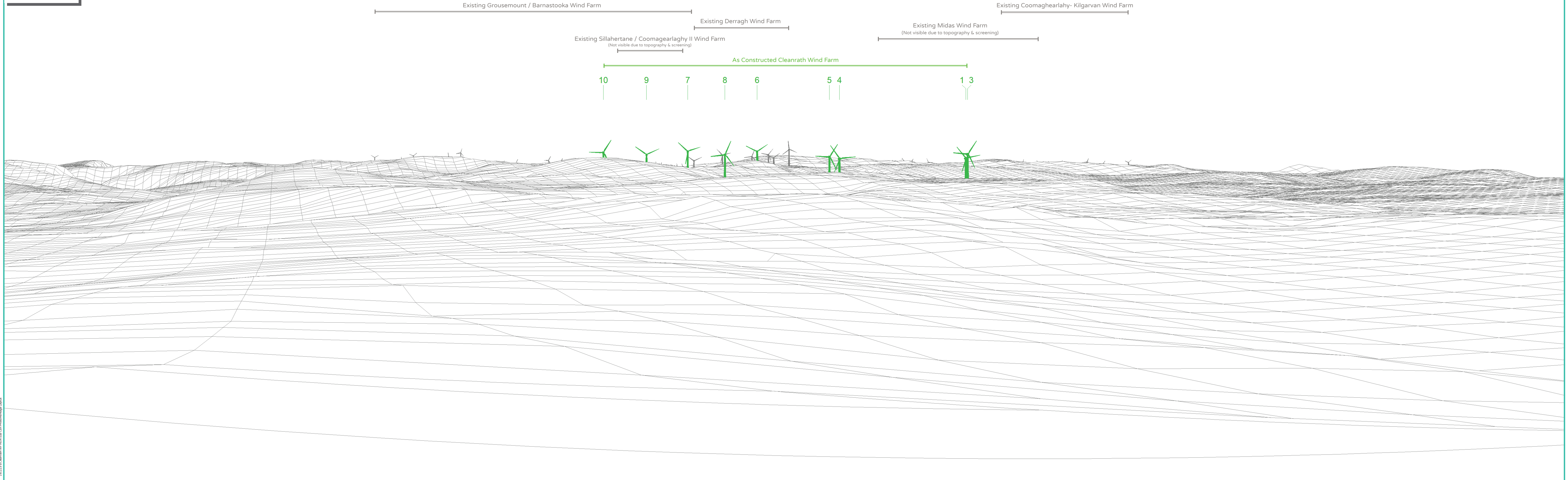
Cumulative Photomontage 90°



Matching Wireframe



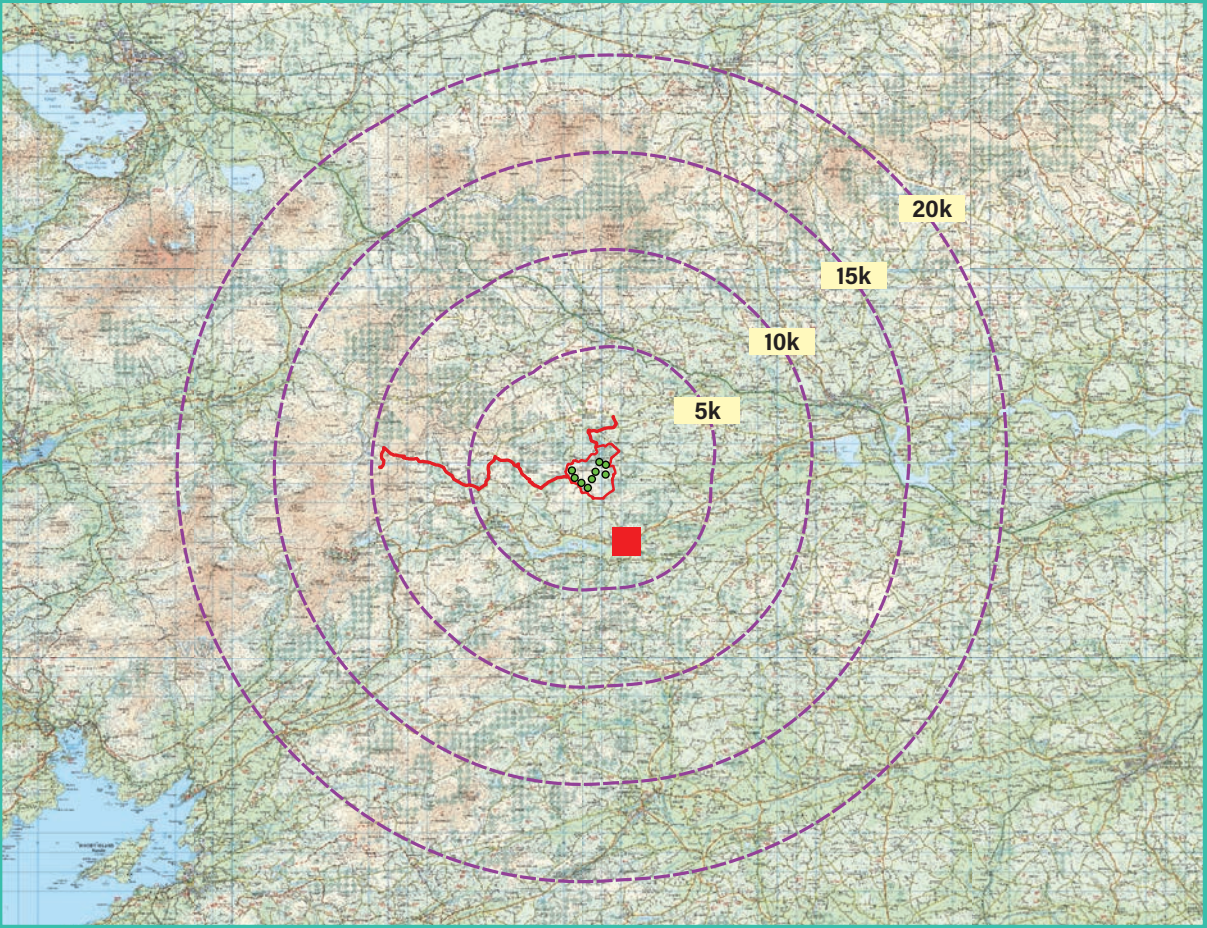
Matching Wireframe



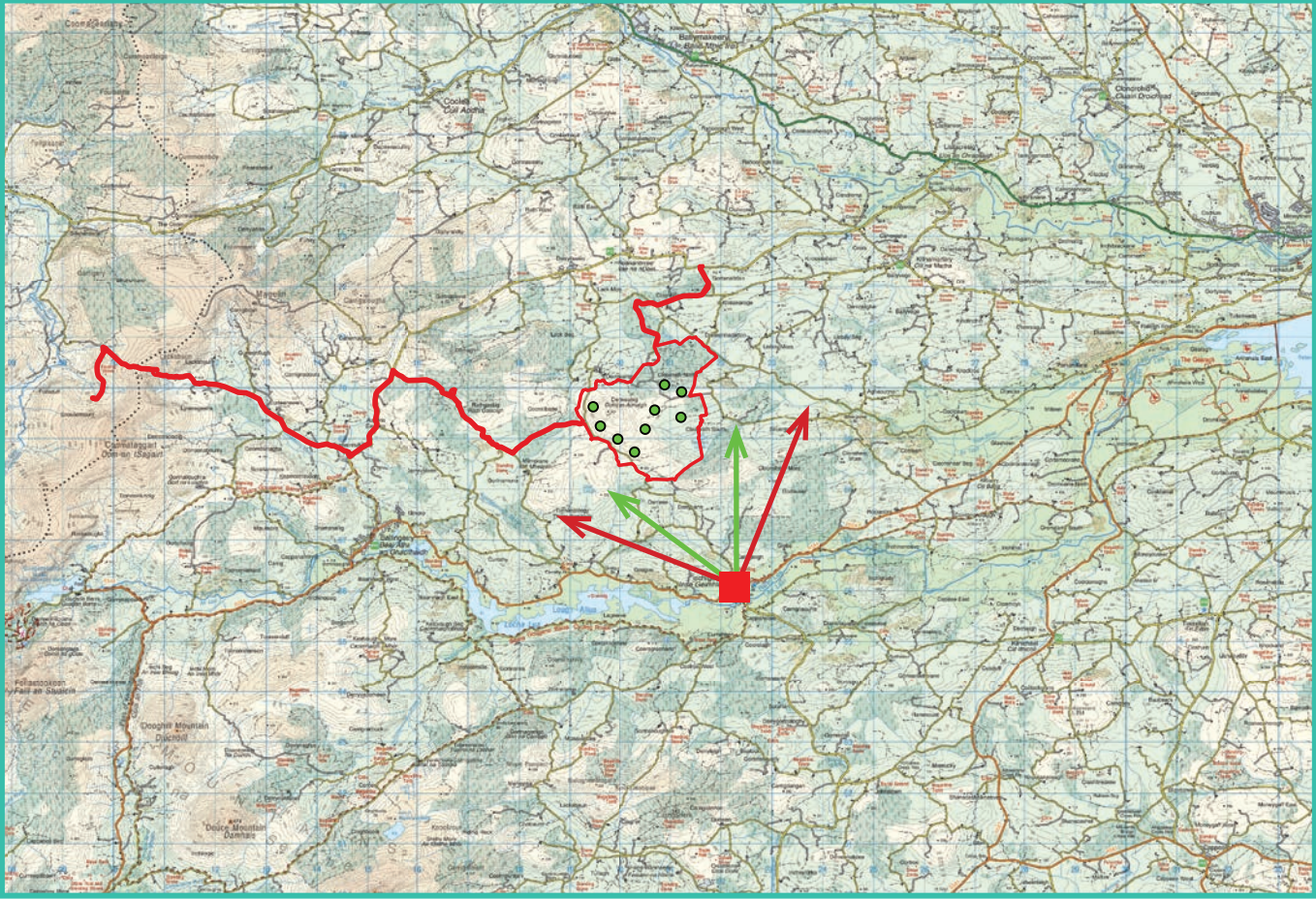
Photomontage 5

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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.

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



90° View Extent

Key Image at 120°

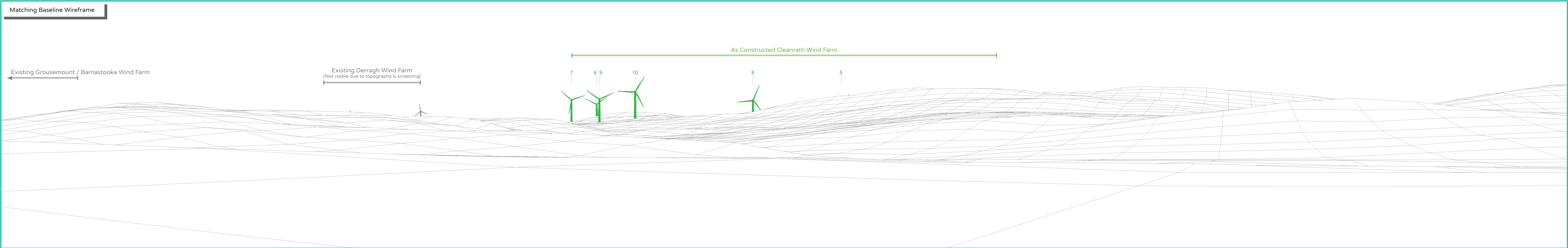


53.5° View Extent

Baseline at 90°



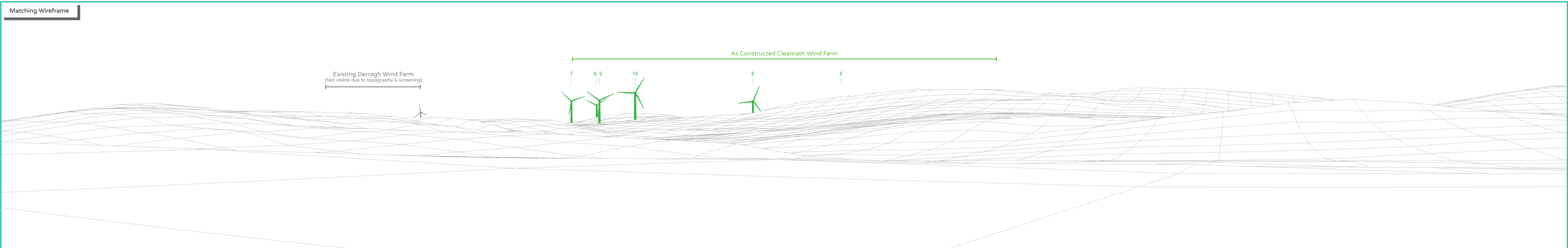
Matching Baseline Wireframe



Cumulative Photomontage 90°



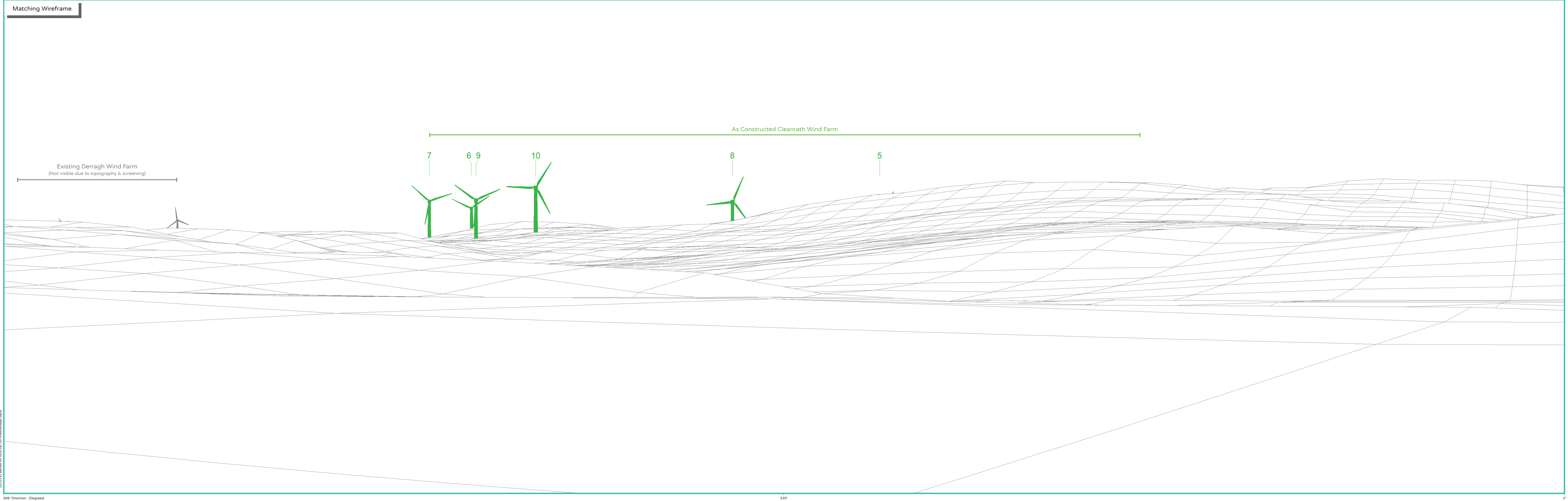
Matching Wireframe



Cumulative Photomontage 53.5°



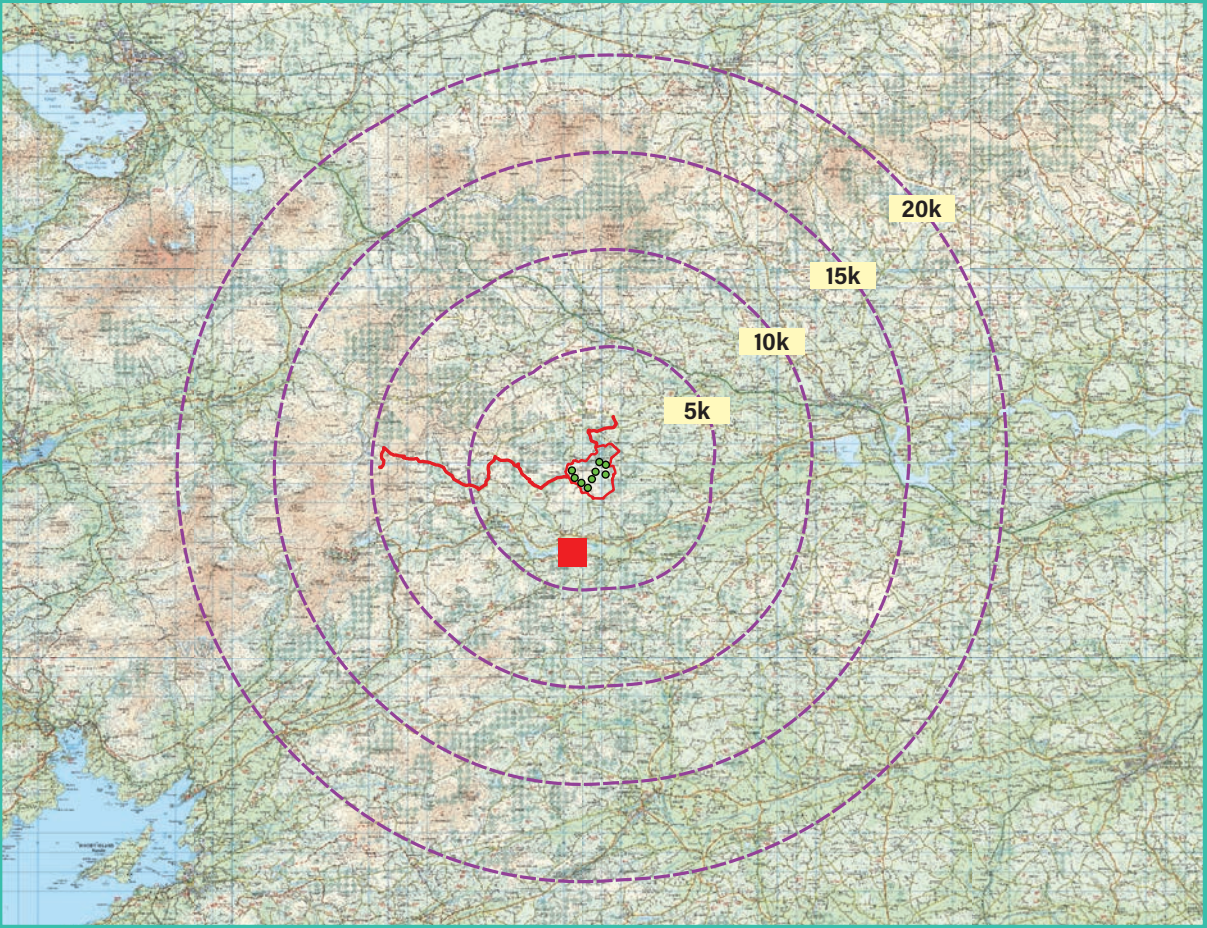
Matching Wireframe



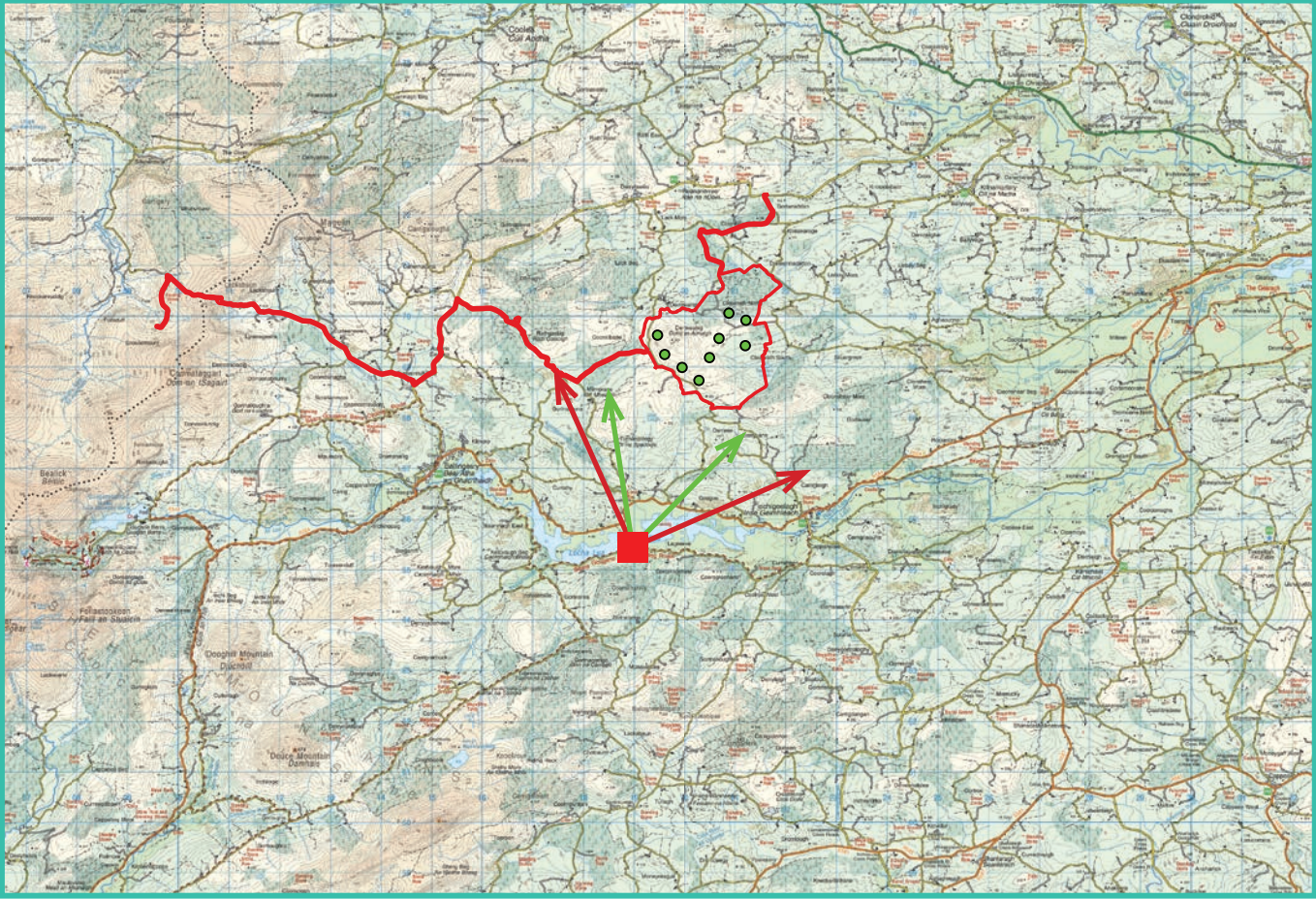
Photomontage 6

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.

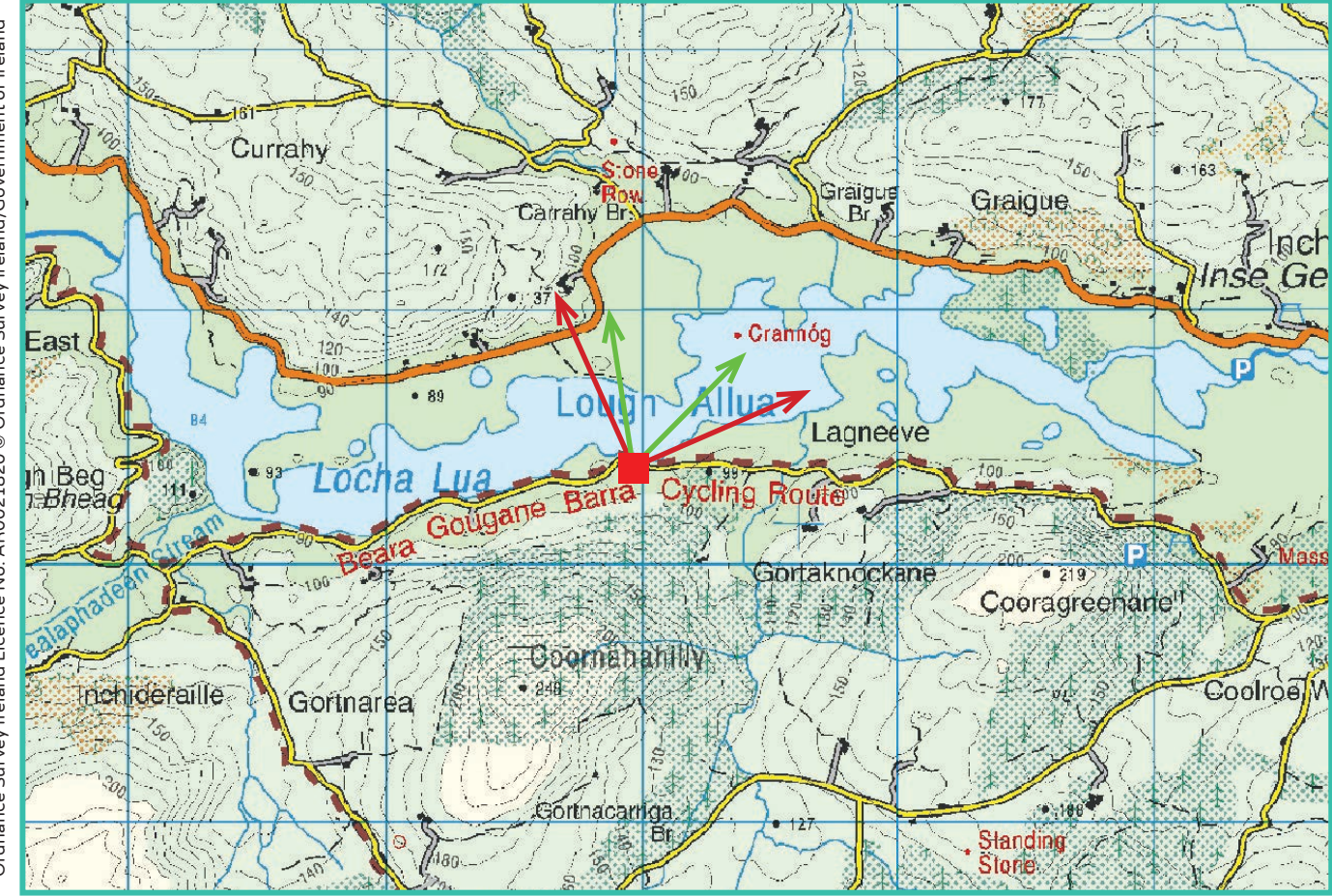
View point grid reference	118,964(E); 65,396(N)
Date of image taken	02.05.2020
Time of image taken	1.00pm
View point elevation	89m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	20°
Horizontal extent of proposed turbines	22°
Distance to nearest proposed turbine	3.6km (T10)
Number of proposed 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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.
Tel: (091) 73 56 11
E-mail: info@mkofireland.ie
Website: www.mkofireland.ie

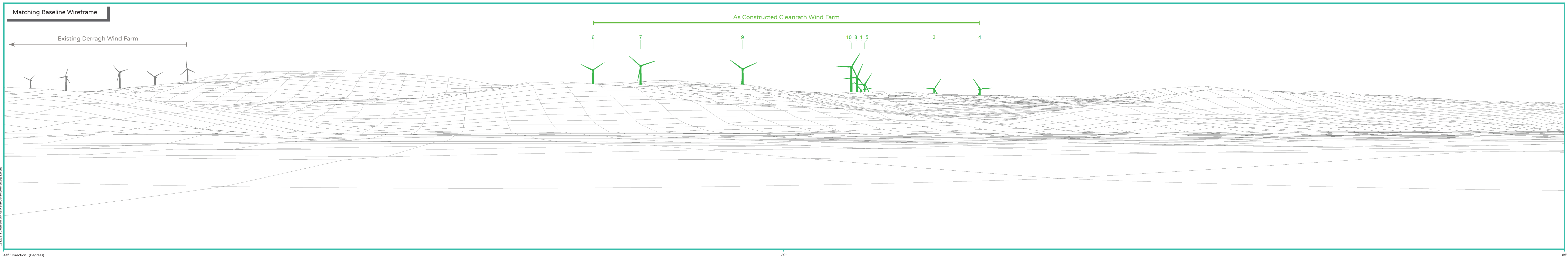


90° View Extent

Key Image at 120°

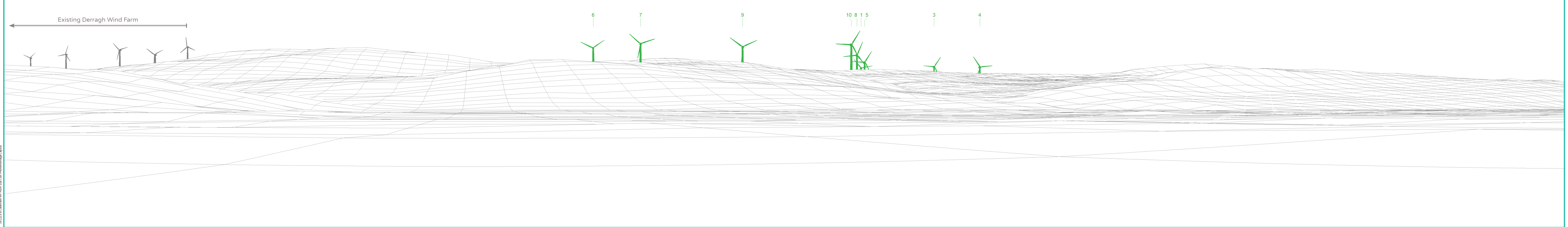


53.5° View Extent



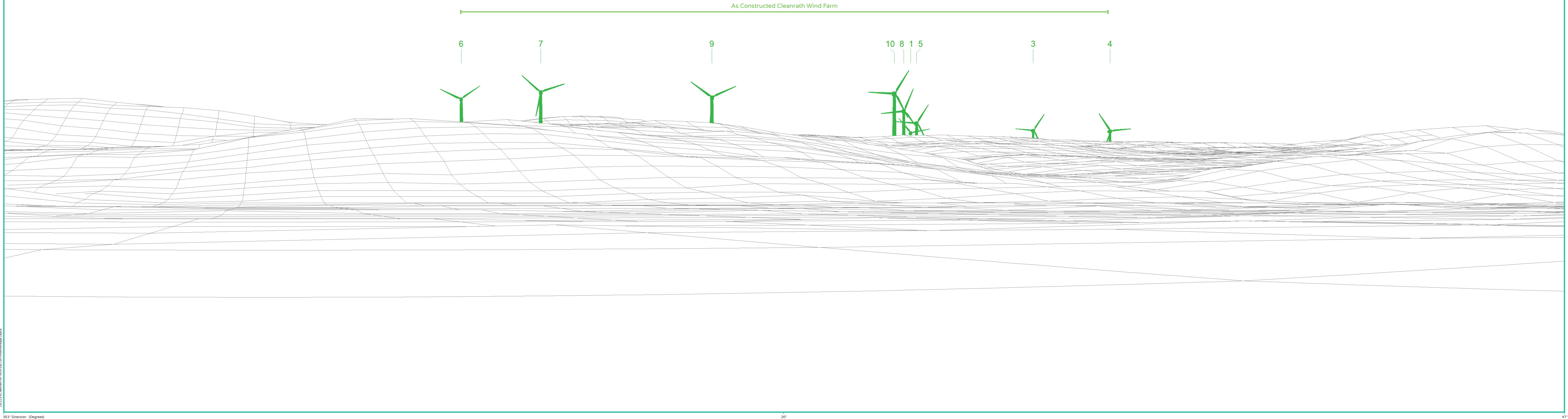


Matching Wireframe





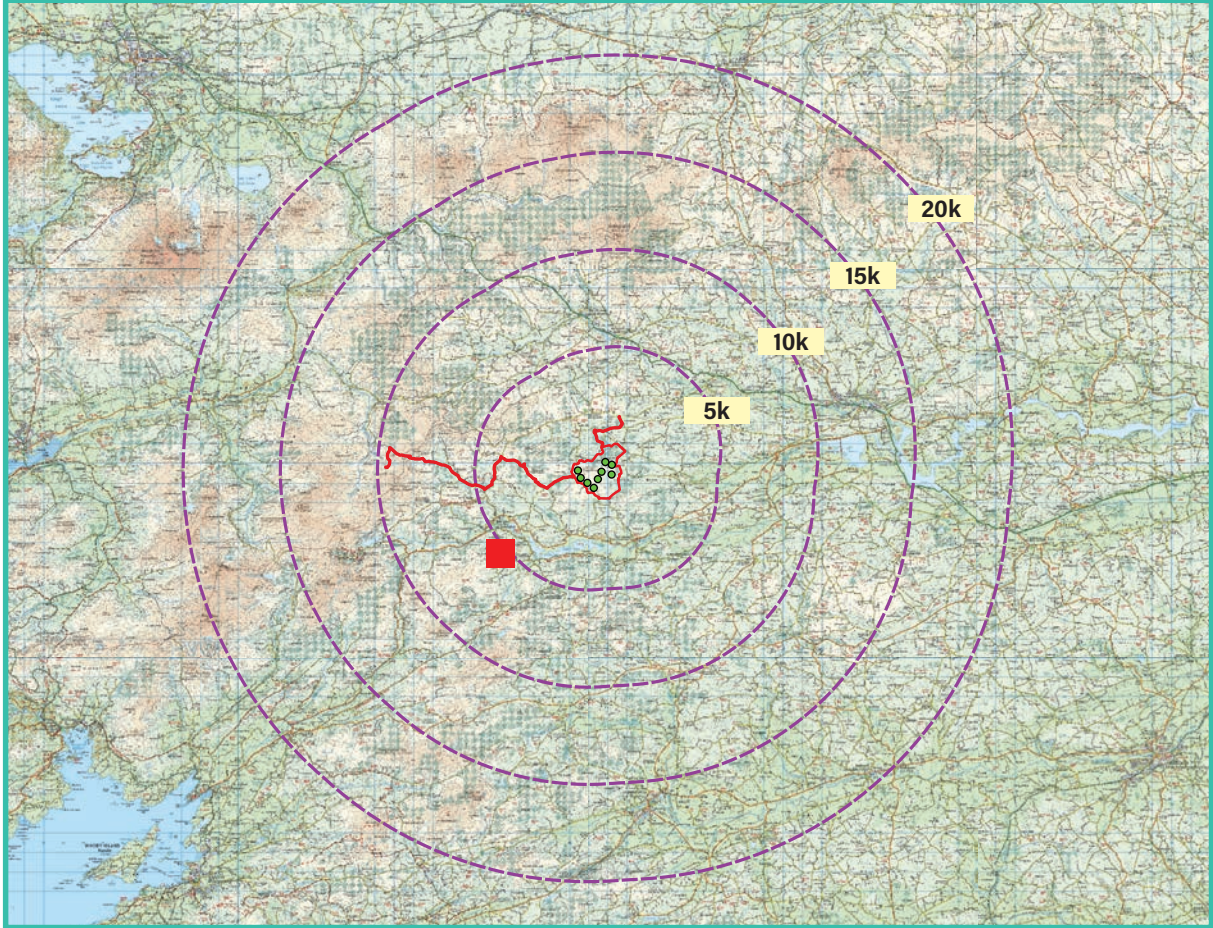
Matching Wireframe



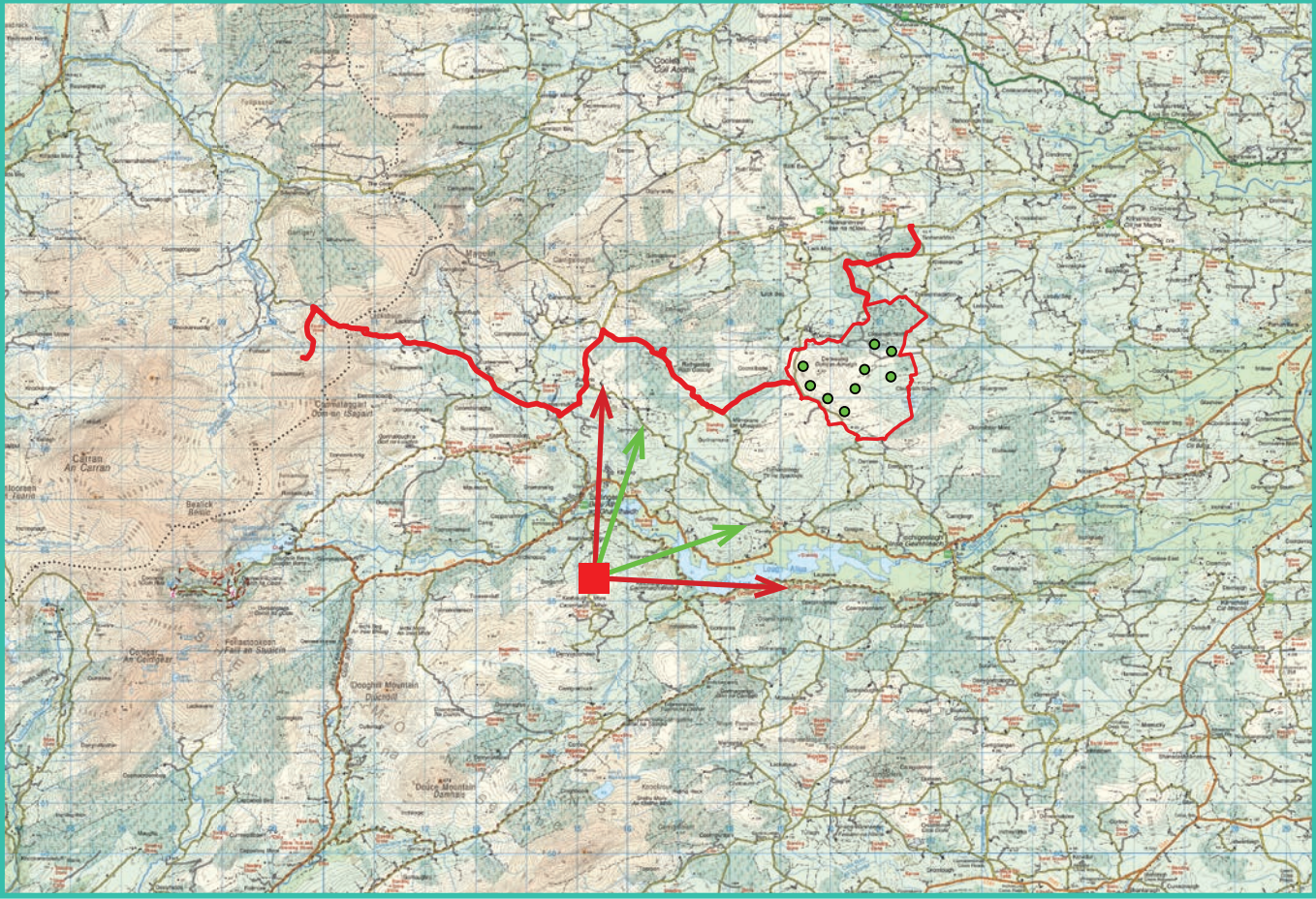
Photomontage 7

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

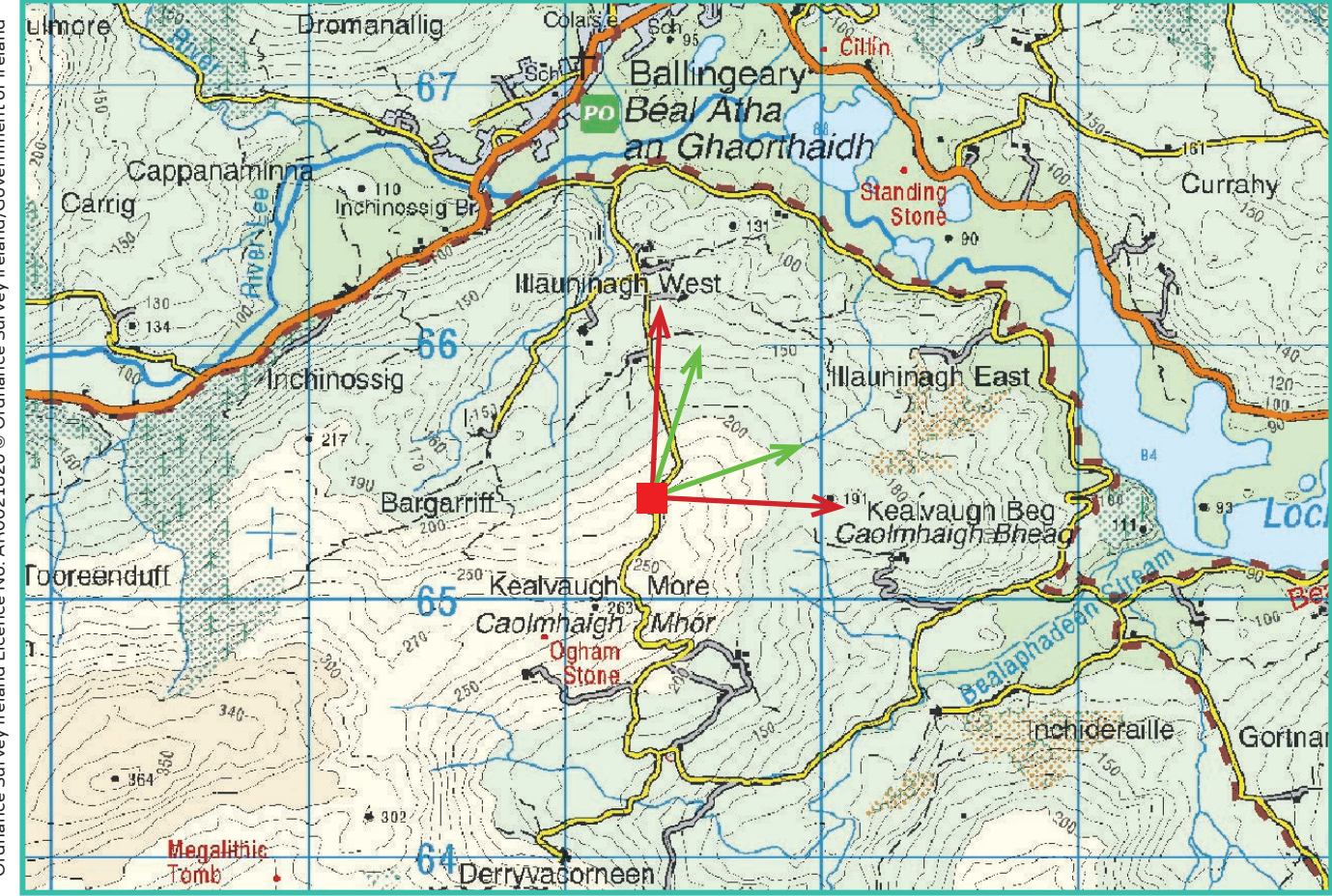
View point grid reference	115,313(E); 65,369(N)
Date of image taken	02.05.2020
Time of image taken	1.35pm
View point elevation	230m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	48°
Horizontal extent of proposed turbines	12°
Distance to nearest proposed turbine	5.8km (T7)
Number of proposed 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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.

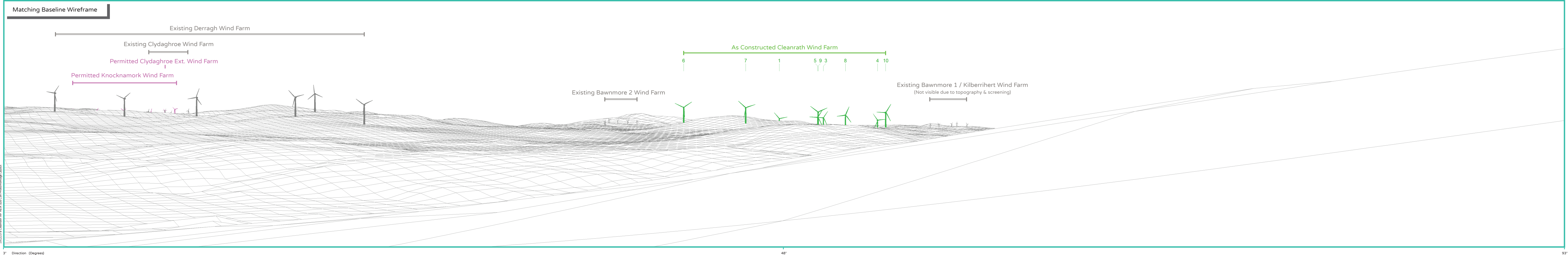
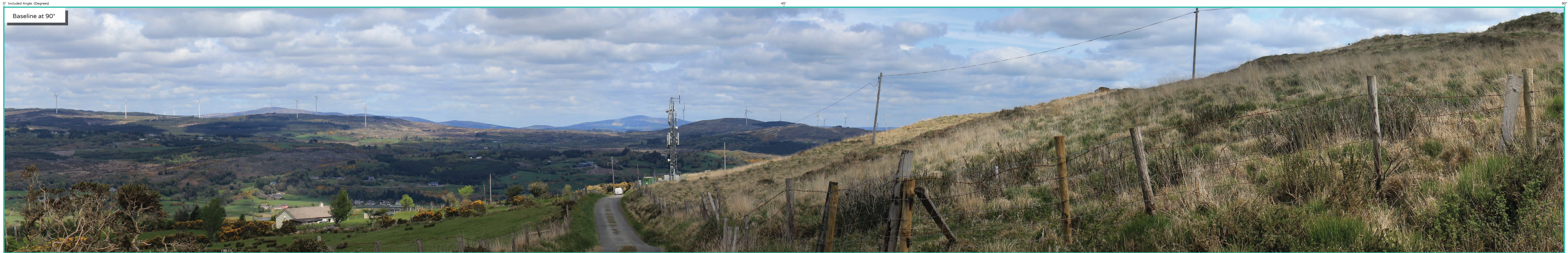
Tel: (091) 73 56 11
E-mail: info@mkoireland.ie
Website: www.mkoireland.ie



Key Image at 120°



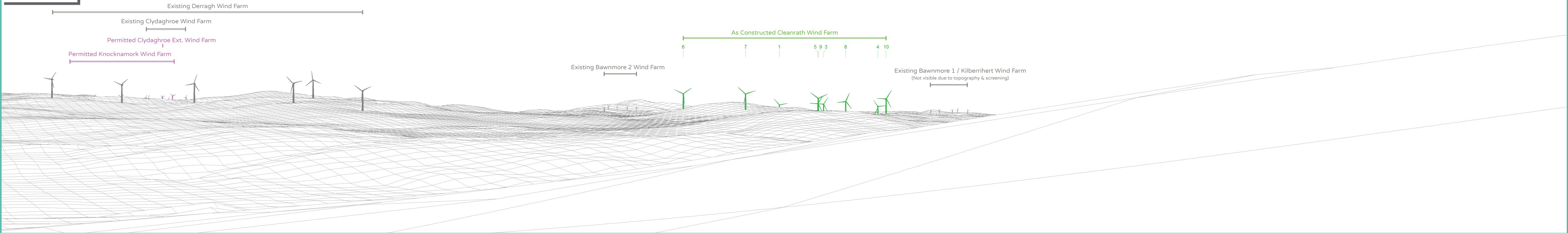
53.5° View Extent



131223 - Cleanrath WP FIG.4 Sub-Contour Photomontage Layout



Matching Wireframe



Cumulative Photomontage 53.5°



Matching Wireframe

Existing Derragh Wind Farm

Existing Bawnmore 2 Wind Farm

Existing Bawnmore 1 / Kilberrihert Wind Farm
(Not visible due to topography & screening)

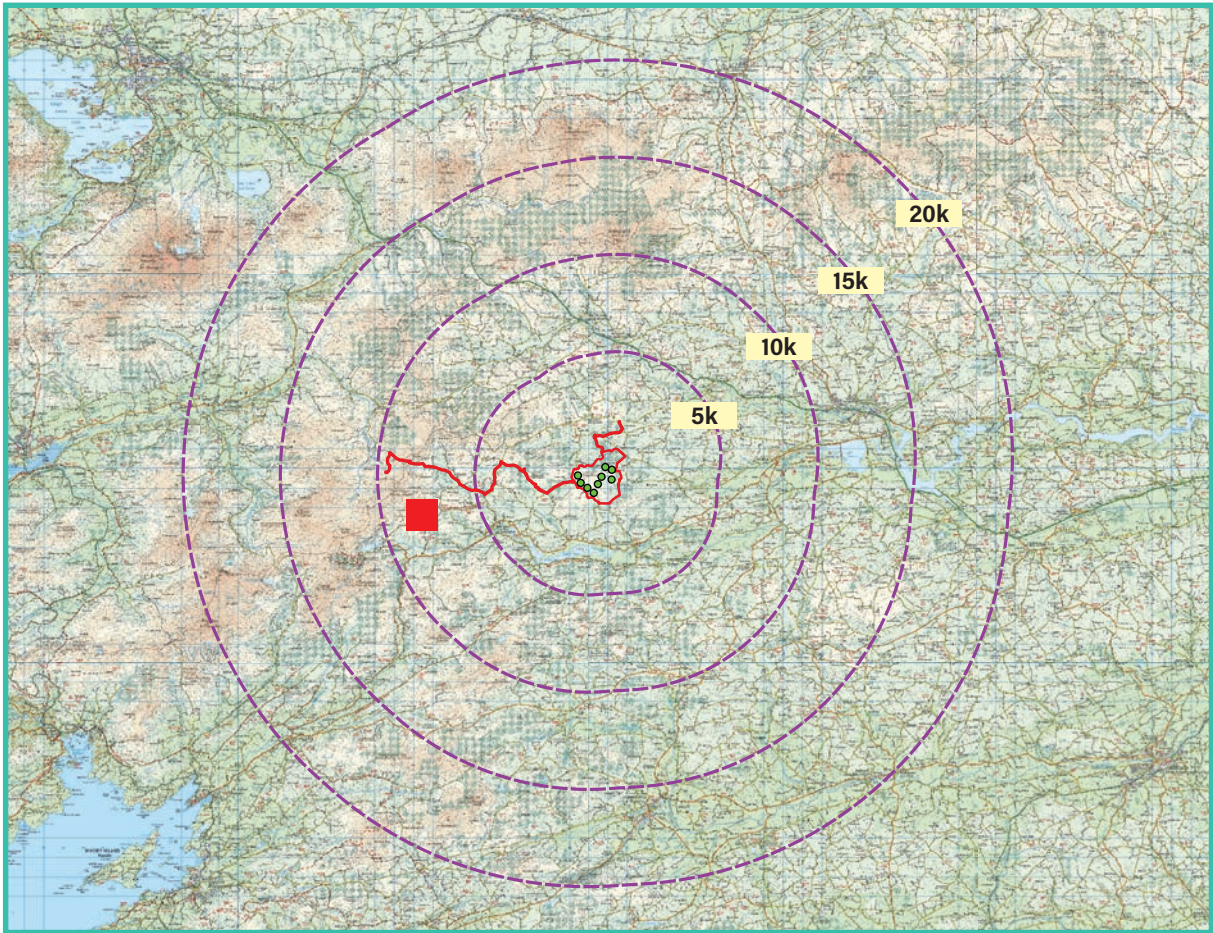
As Constructed Cleanrath Wind Farm

6 7 1 5 9 3 8 4 10

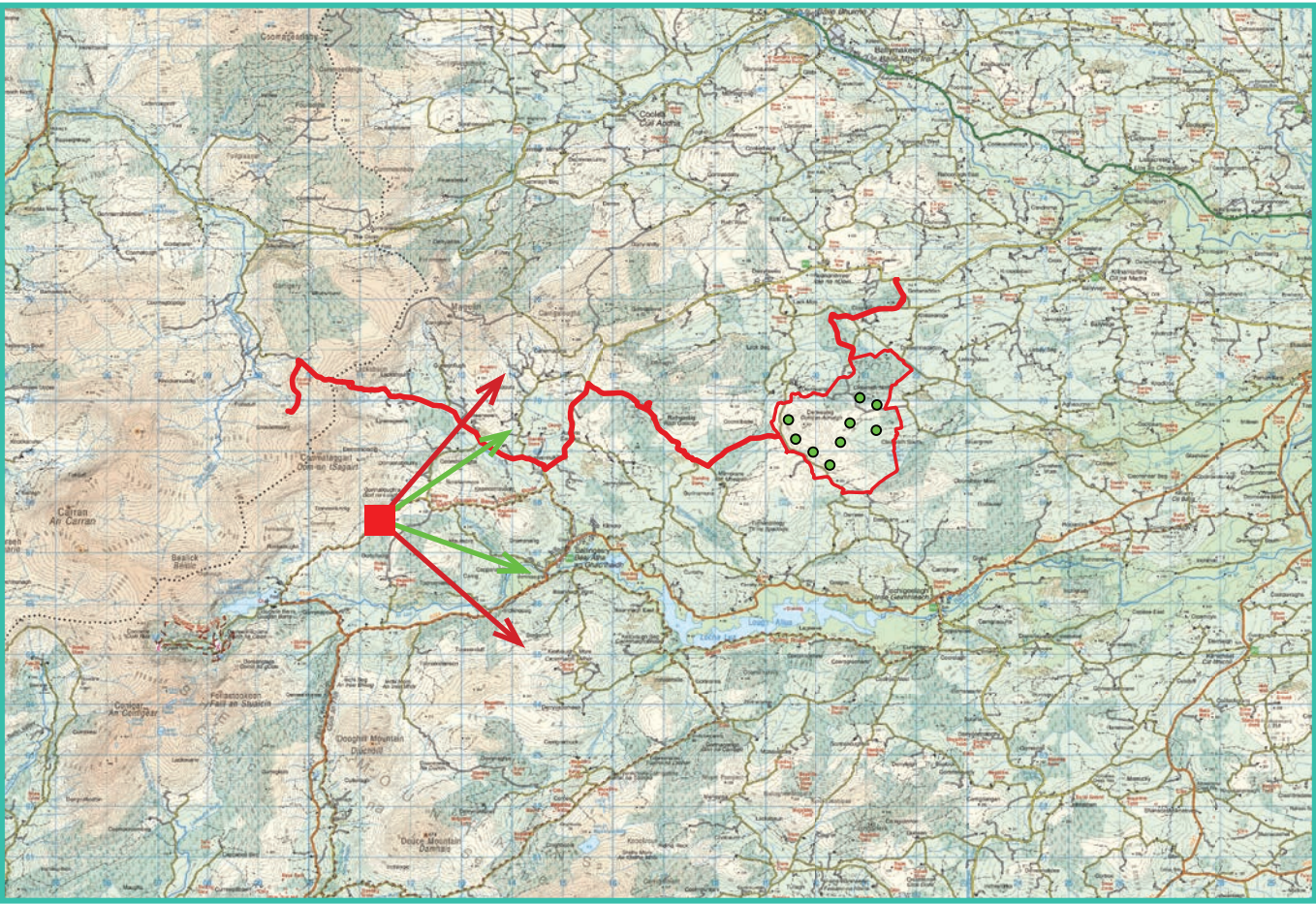
Photomontage 8

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

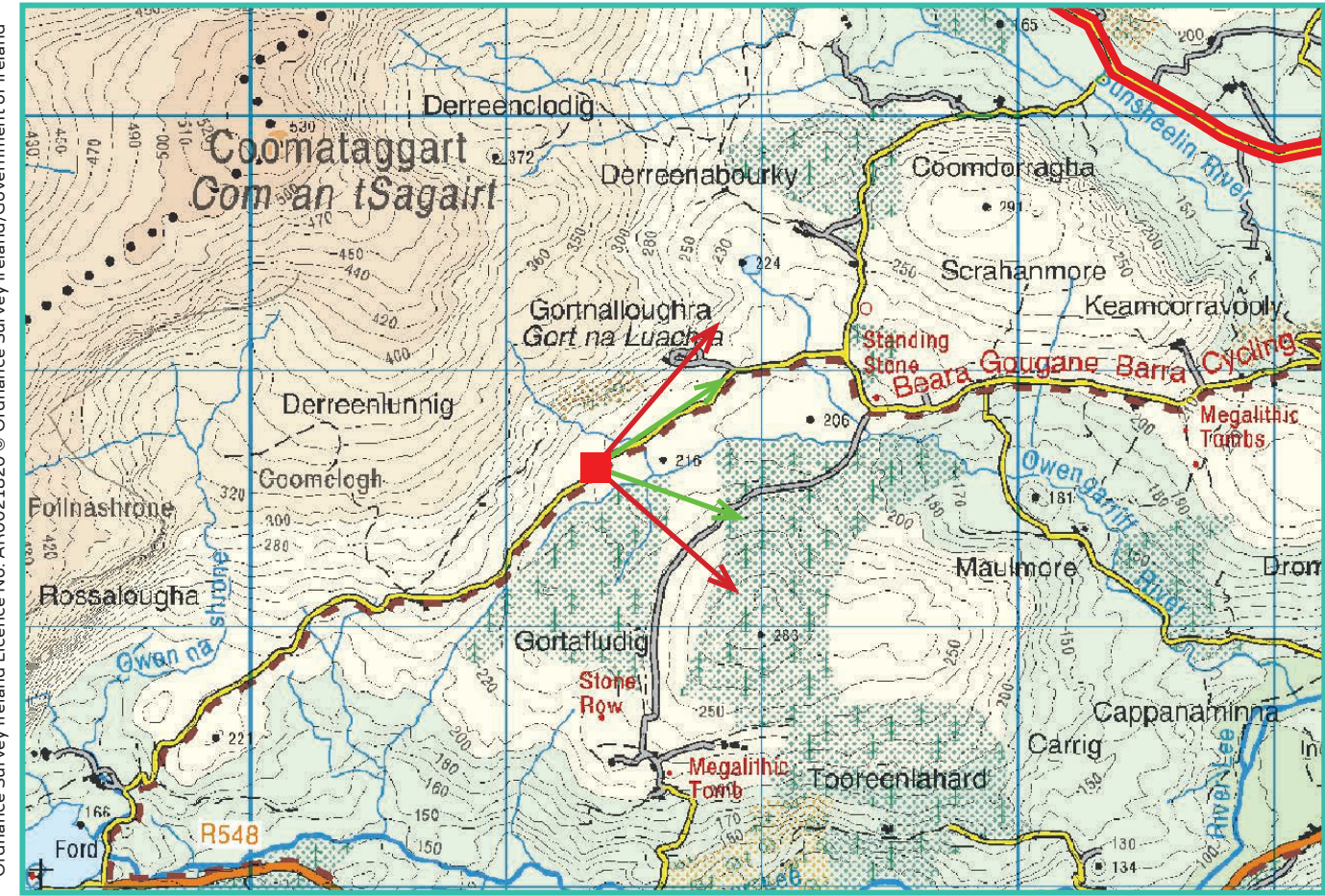
View point grid reference	111,366(E); 67,623(N)
Date of image taken	02.05.2020
Time of image taken	2.20pm
View point elevation	221m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	86°
Horizontal extent of proposed turbines	7°
Distance to nearest proposed turbine	8.3km (T6)
Number of proposed 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
- Permitted Wind Farms in Pink
- Existing (Under Construction) Wind Farms in Grey

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.

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

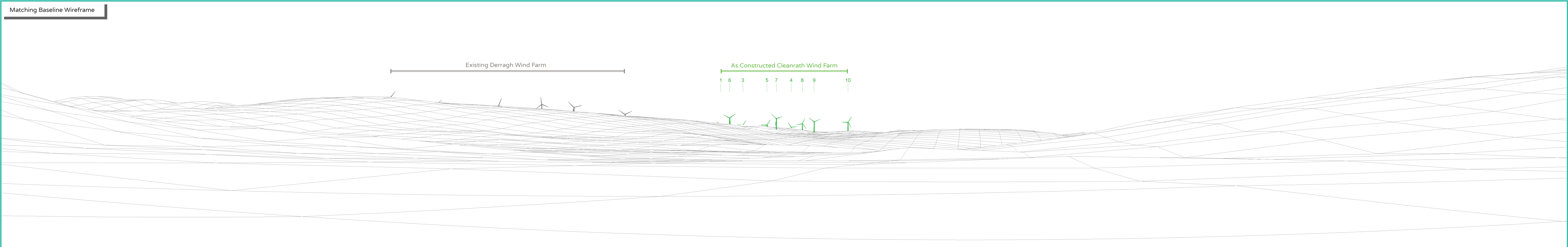


53.5° View Extent

Baseline at 90°



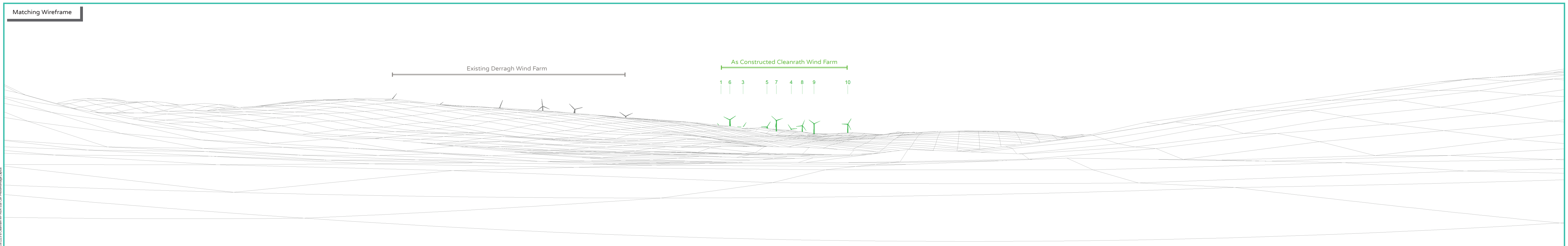
Matching Baseline Wireframe



Cumulative Photomontage 90°



Matching Wireframe

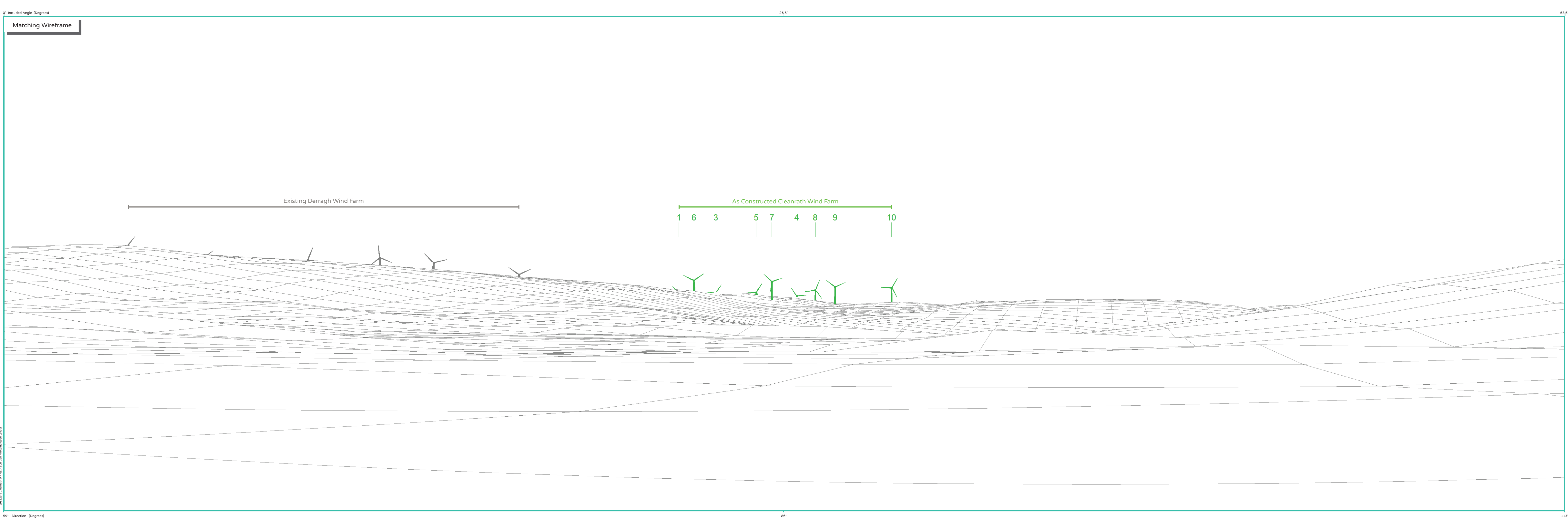




191223-0-Channels VPP-BEA Ltd. Cumulative Photomontage Layout

Cumulative Photomontage 53.5°

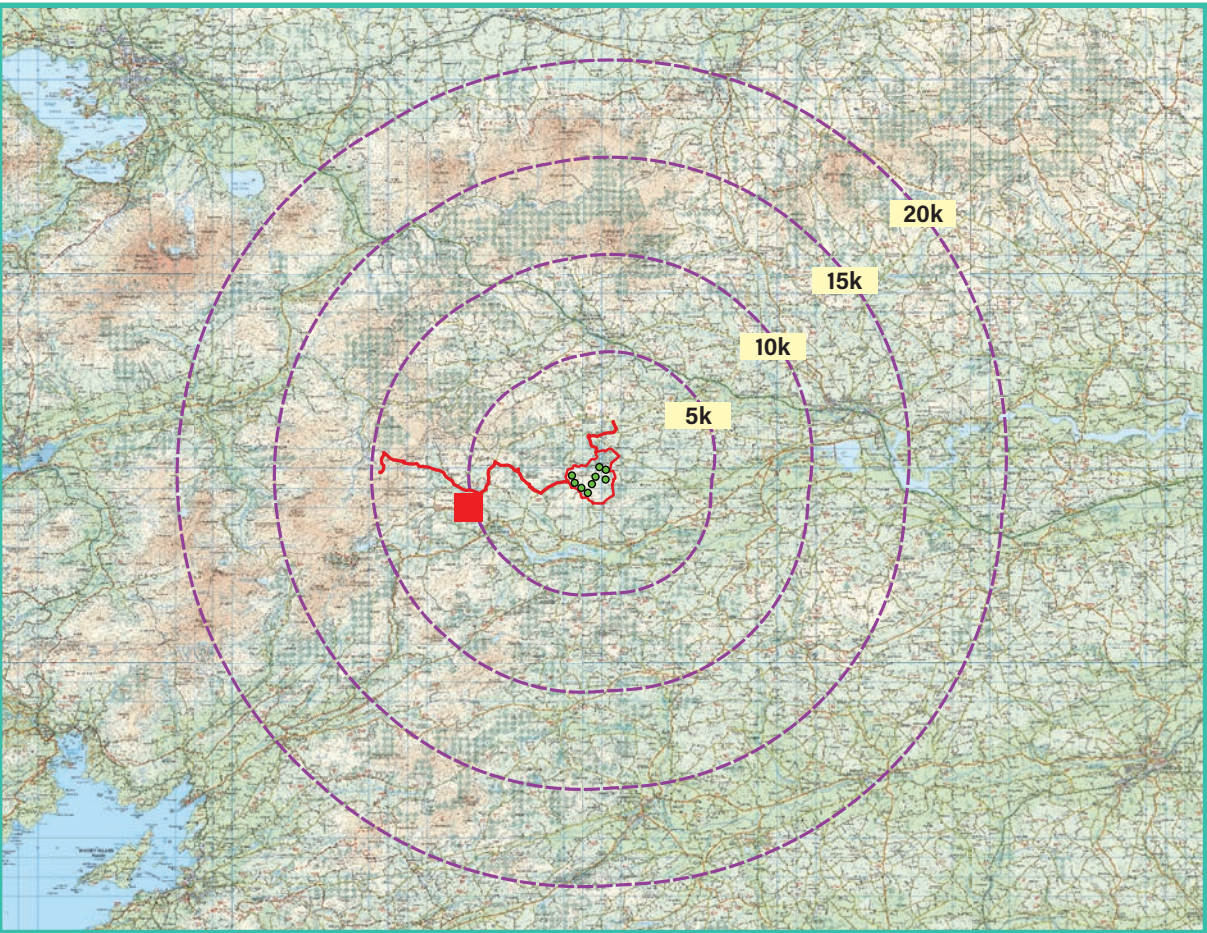
Matching Wireframe



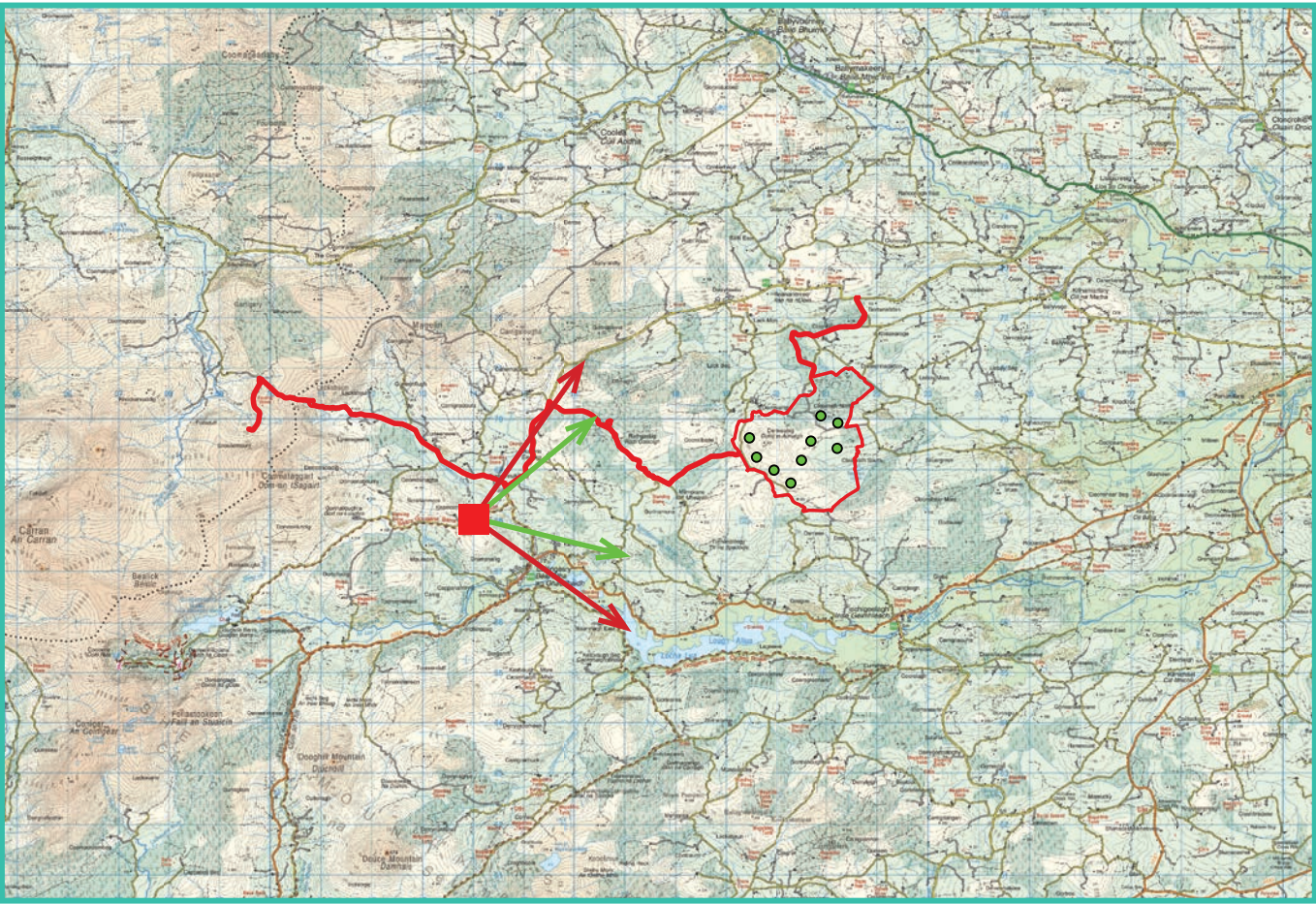
Photomontage 9

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

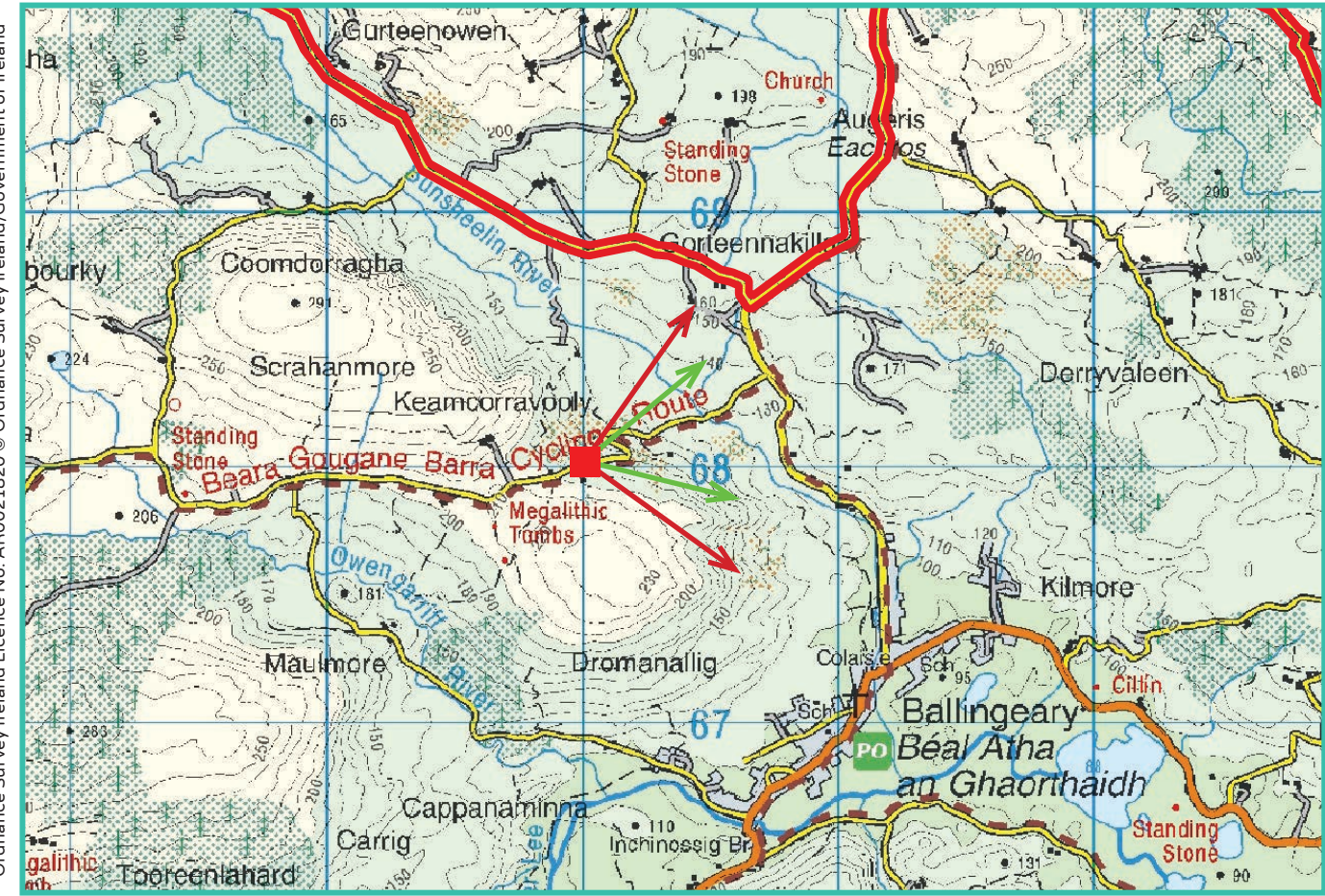
View point grid reference	113,972(E); 68,000(N)
Date of image taken	02.05.2020
Time of image taken	2.40pm
View point elevation	187m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	80°
Horizontal extent of proposed turbines	10°
Distance to nearest proposed turbine	5.7km (T6)
Number of proposed 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

Prepared by

MKO
Planning & Environmental Consultants
Tuam Road, Galway.

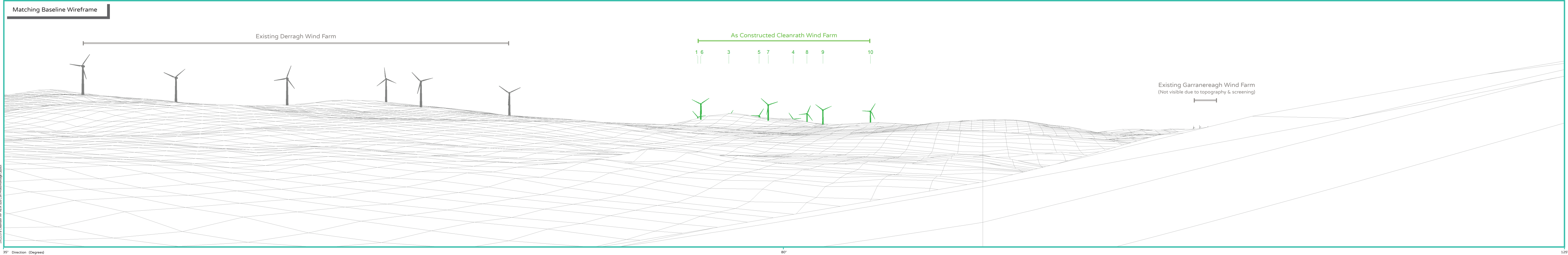
Tel: (091) 73 56 11
E-mail: info@mkofireland.ie
Website: www.mkofireland.ie



90° View Extent

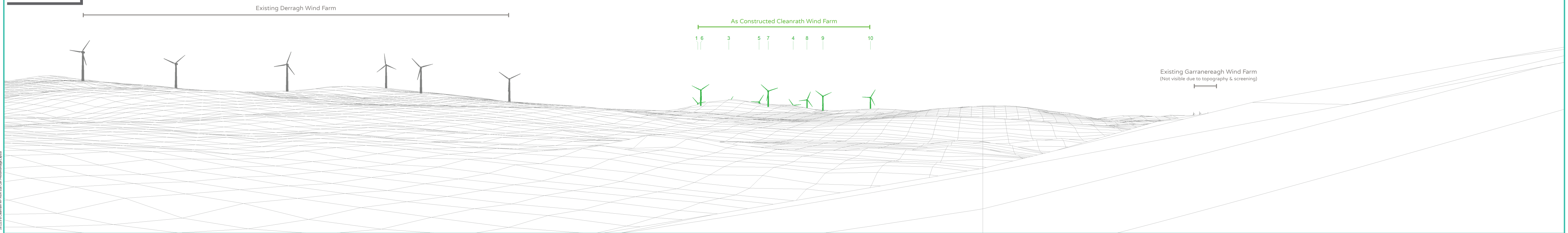


53.5° View Extent





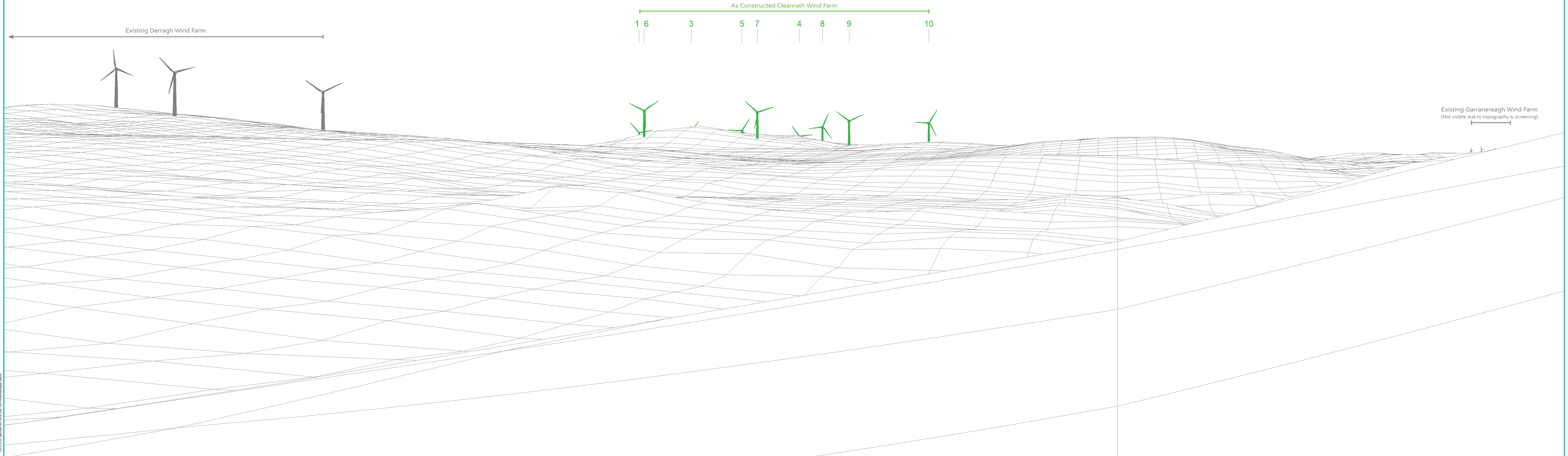
Matching Wireframe



Cumulative Photomontage 53.5°



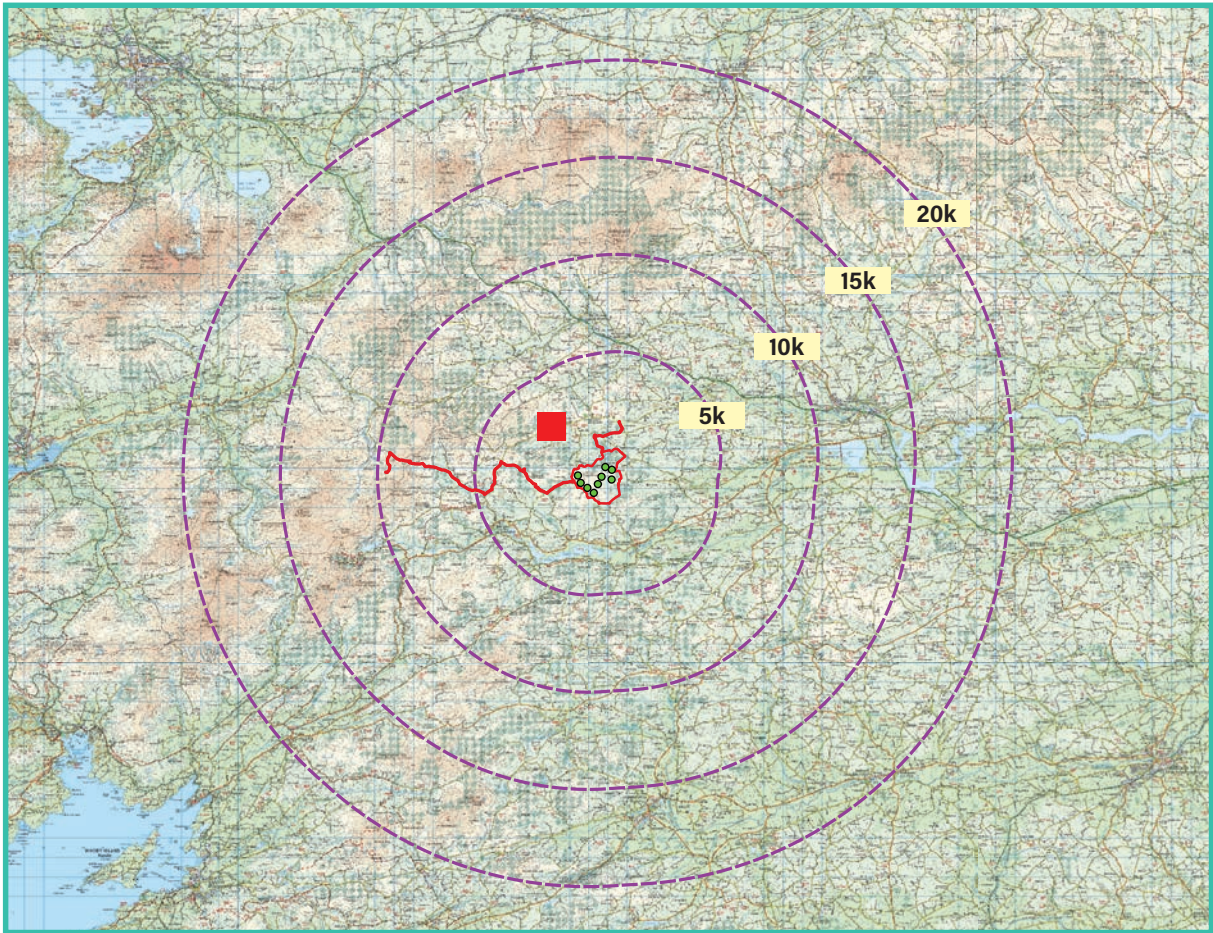
Matching Wireframe



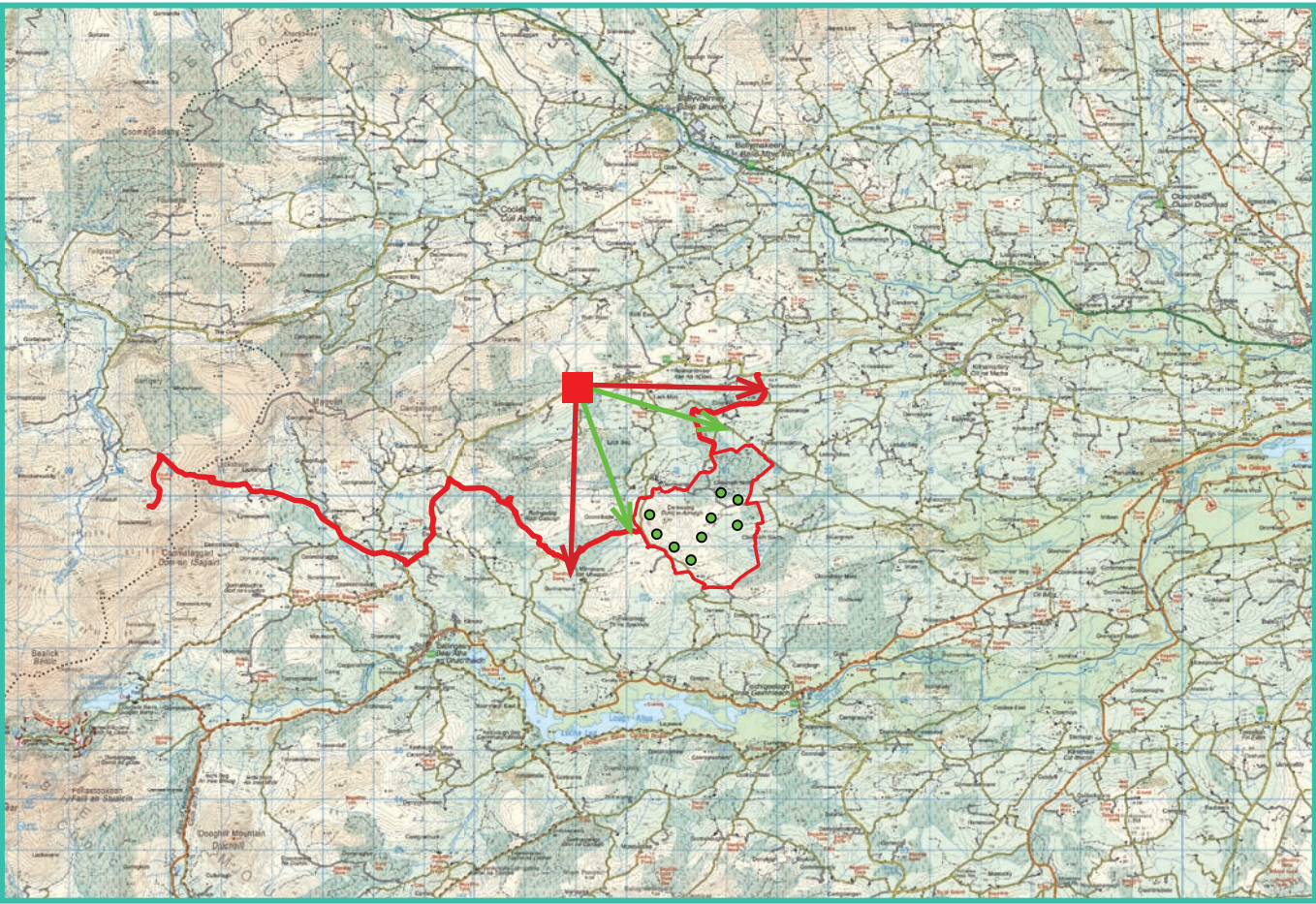
Photomontage 10

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

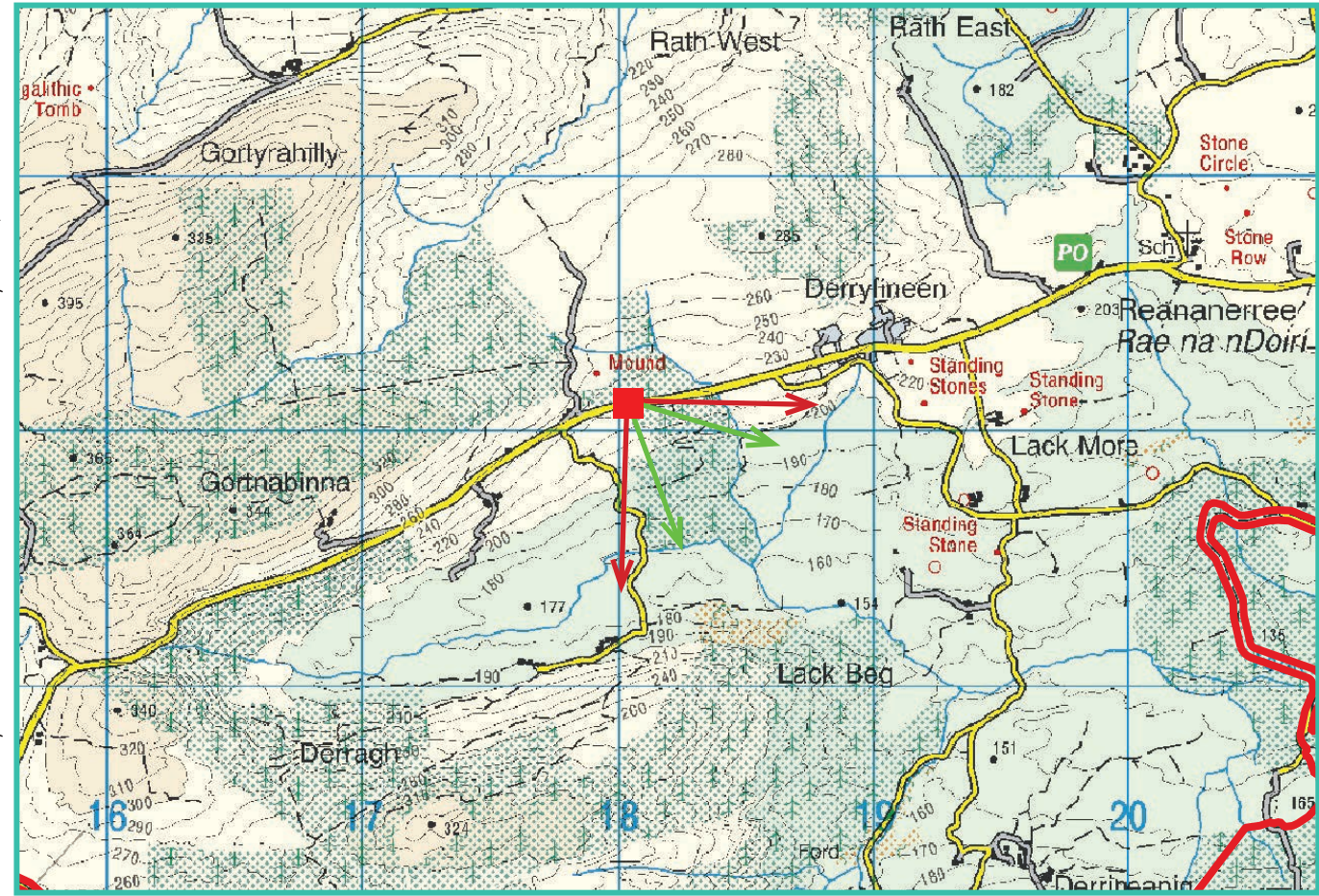
View point grid reference	117,987(E); 72,098(N)
Date of image taken	02.05.2020
Time of image taken	3.15pm
View point elevation	233m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	136°
Horizontal extent of proposed turbines	26°
Distance to nearest proposed turbine	2.8km (T1)
Number of proposed 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

Prepared by

MKO

Planning & Environmental Consultants

Tuam Road, Galway.

Tel: (091) 73 56 11

E-mail: info@mkoireland.ie

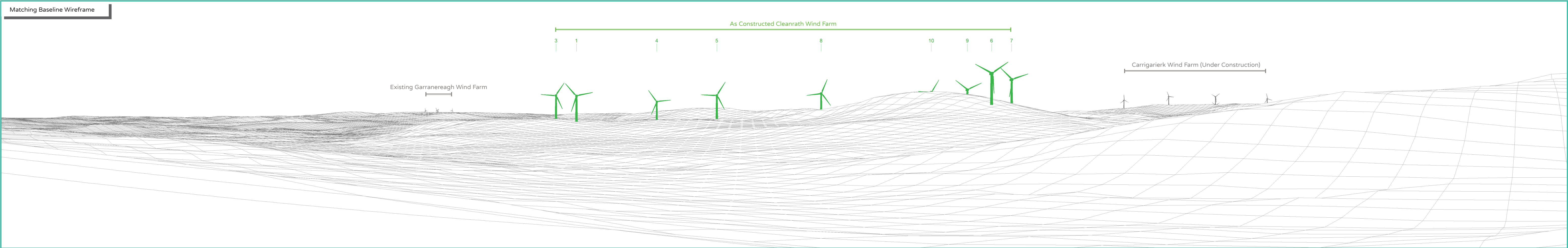
Website: www.mkoireland.ie



Baseline at 90°



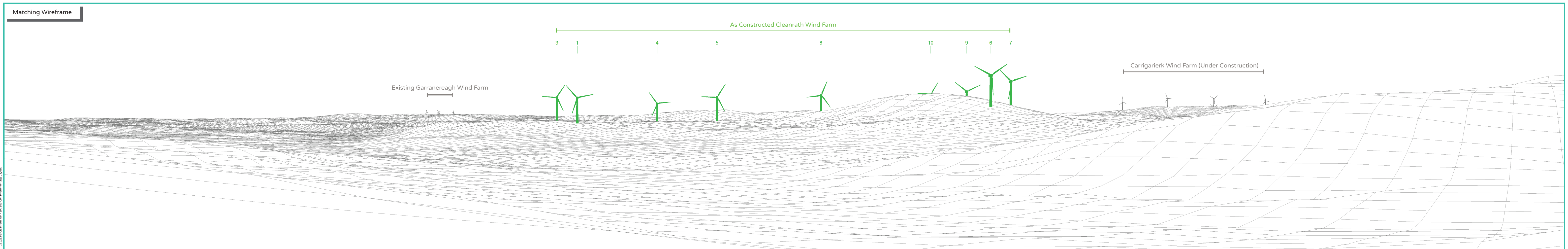
Matching Baseline Wireframe



Cumulative Photomontage 90°



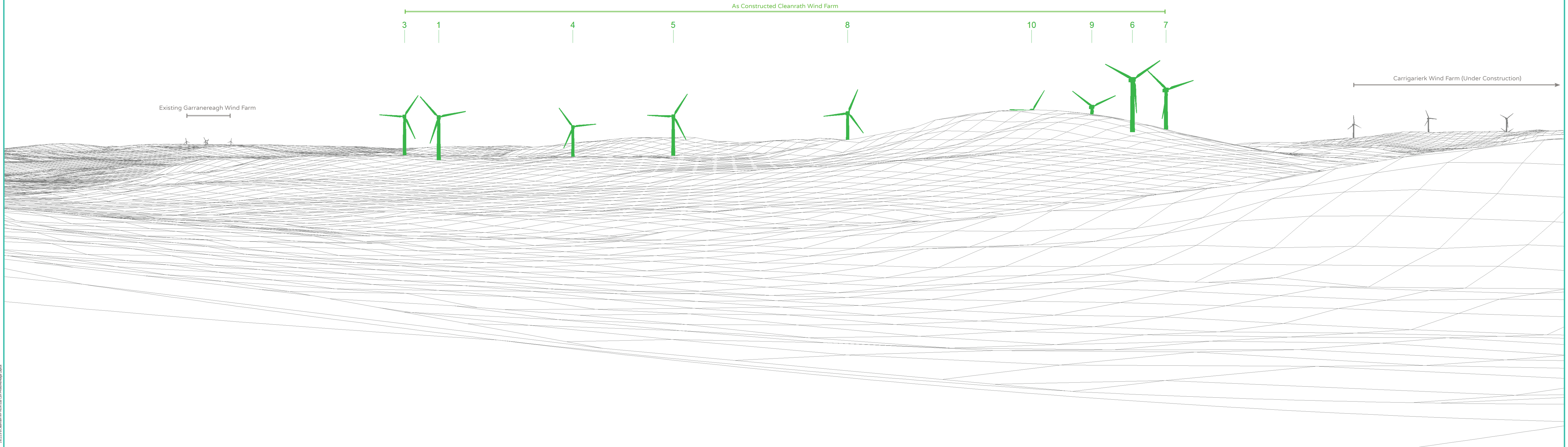
Matching Wireframe



Cumulative Photomontage 53.5°



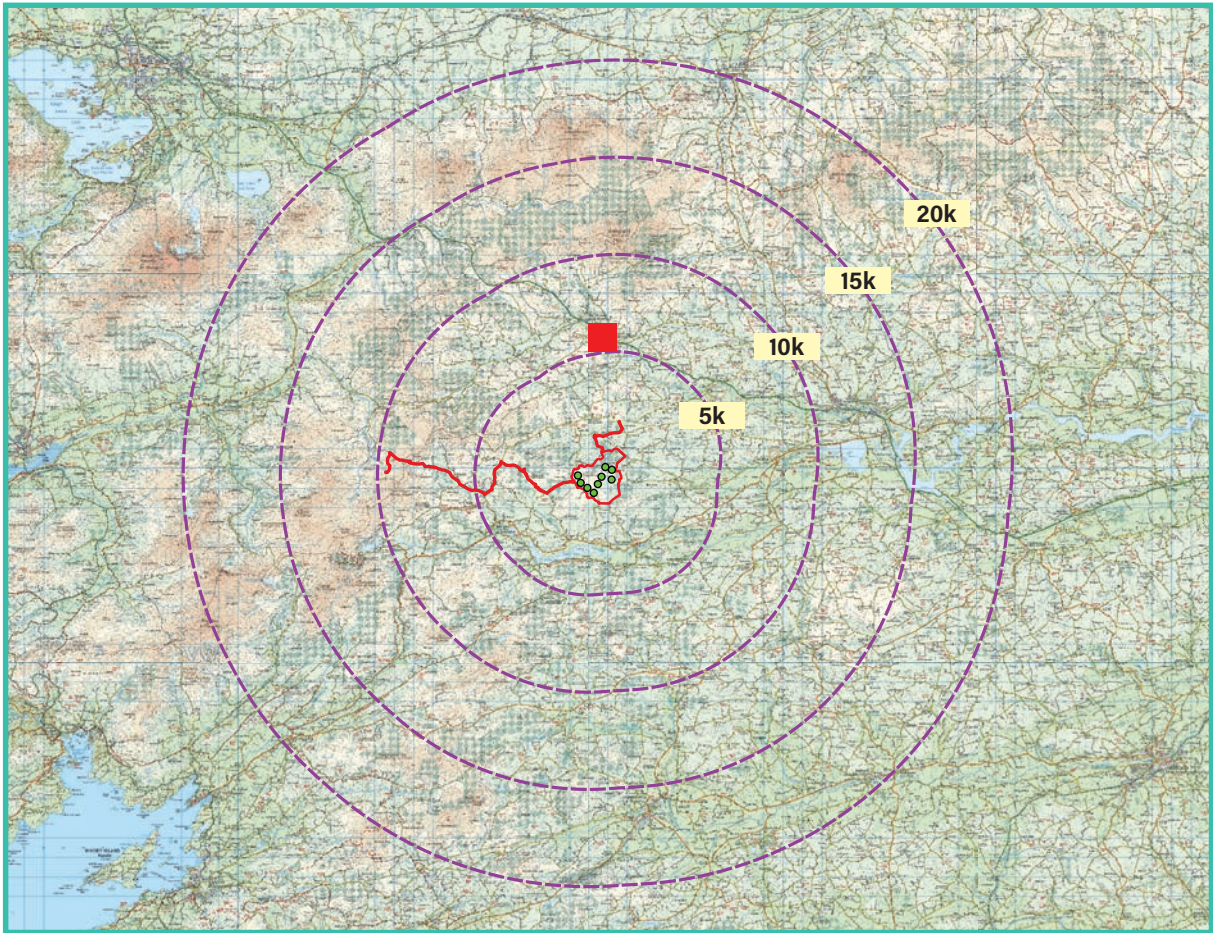
Matching Wireframe



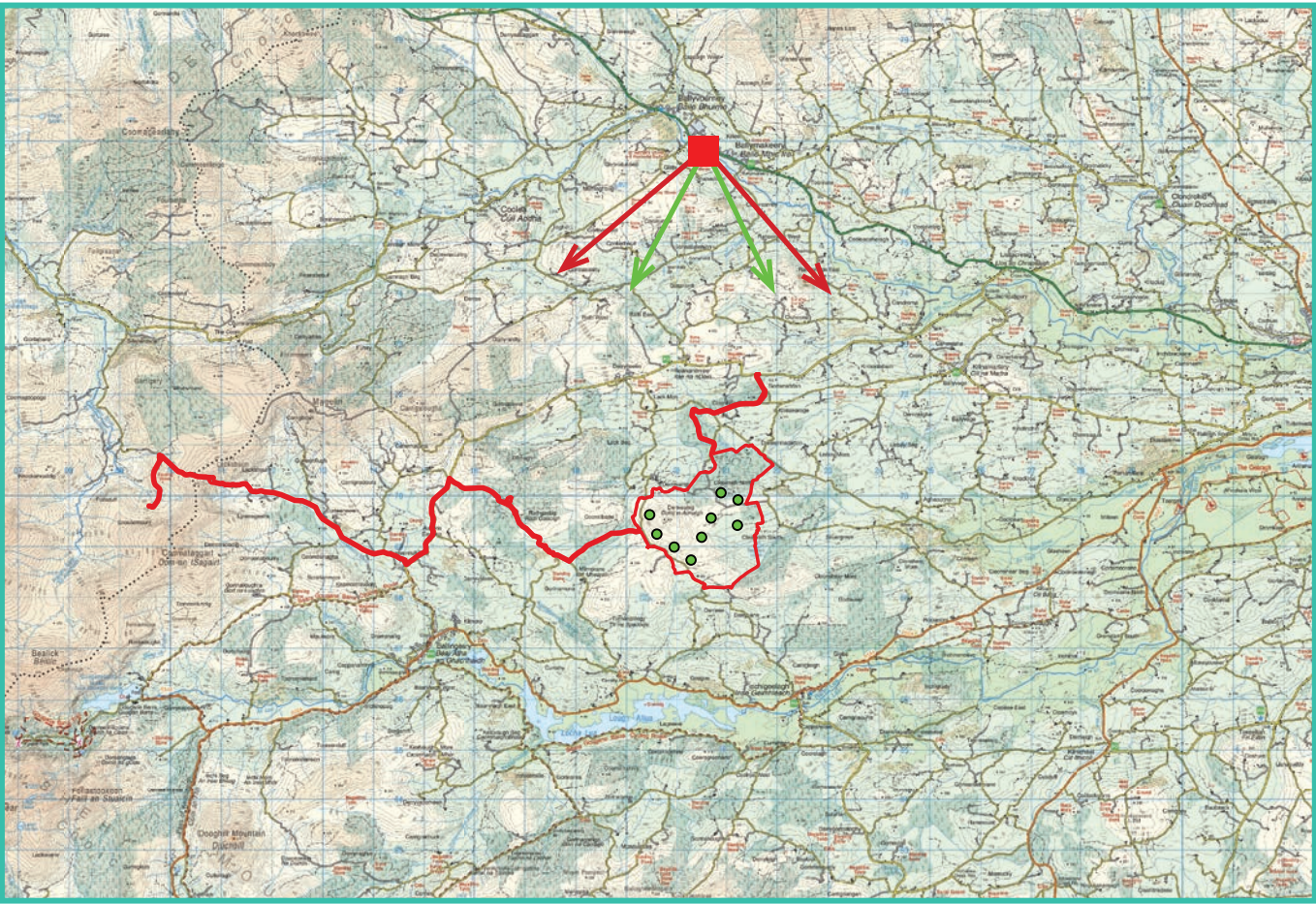
Photomontage 11

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.

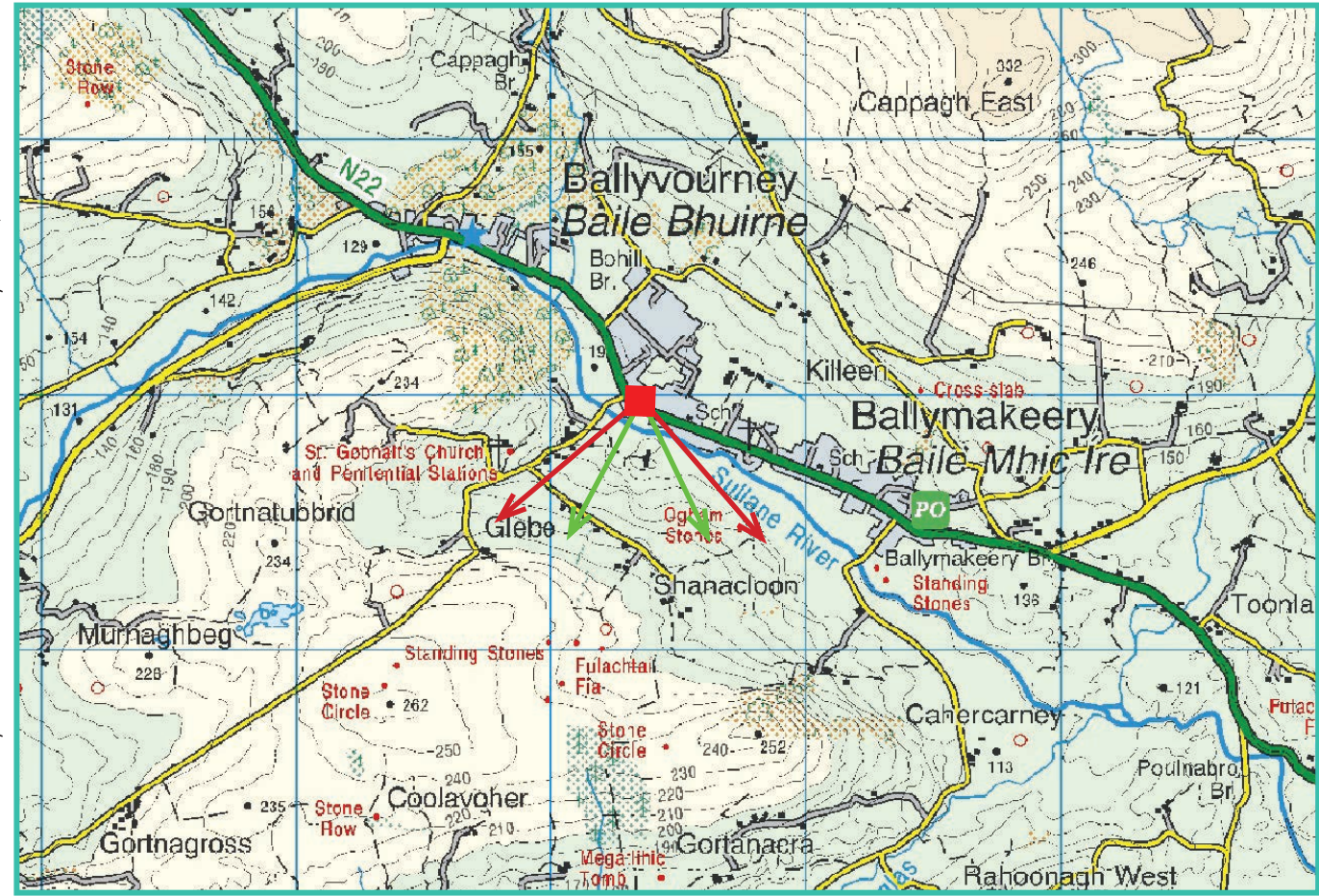
View point grid reference	120,373(E); 76,937(N)
Date of image taken	06.11.2011
Time of image taken	9.56pm
View point elevation	115m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	183°
Horizontal extent of proposed turbines	16°
Distance to nearest proposed turbine	6.89km (T3)
Number of proposed 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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Tuam Road, Galway.

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

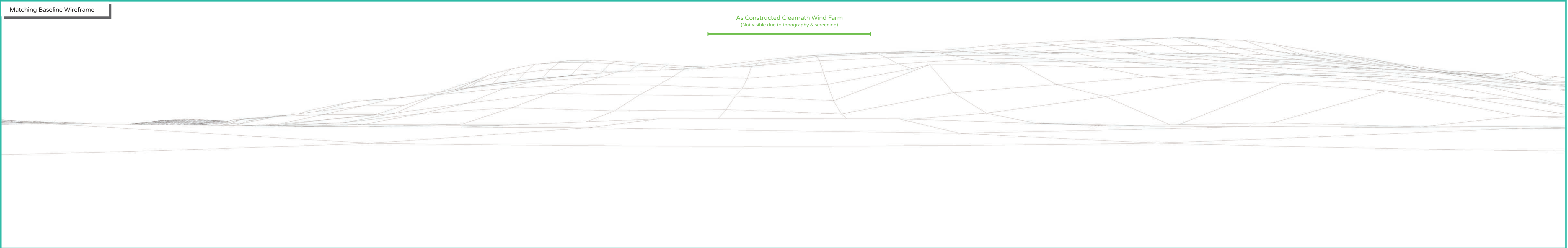


101223-a Cleanrath WF REIA
Sun Cor Photomontage Layout
V5

Baseline at 90°



Matching Baseline Wireframe

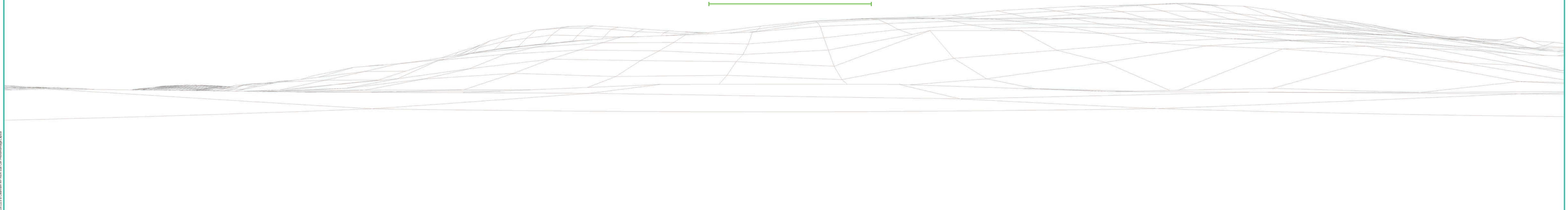


Cumulative Photomontage 90°



Matching Wireframe

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



Cumulative Photomontage 53.5°



0° Included Angle (Degrees)

26.5°

53.5°

Matching Wireframe

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

131.223 x Cleanrath W/F REA Site Con Photomontage Layout

109° Direction (Degrees)

183°

163°

