



Proposed Knockshanvo  
Wind Farm

EIAR Volume 2  
Photomontage Booklet





The full methodology used for production of photomontages, Viewpoint Selection and impact assessment are included in Appendix 14-1 - LVIA Methodology

The following two guidance documents are considered the industry benchmark for producing photomontages specifically for wind energy developments and were the standards adhered to during the production of photomontages for this booklet

- ‘Visual Representation of Wind Farms: Version 2.2’ (Scottish Natural Heritage, 2017)
- ‘Visual Representation of Development Proposals’ (Landscape Institute Technical Guidance Note 06/19, 2019) (hereafter, LI TGN 06/19)









View Point

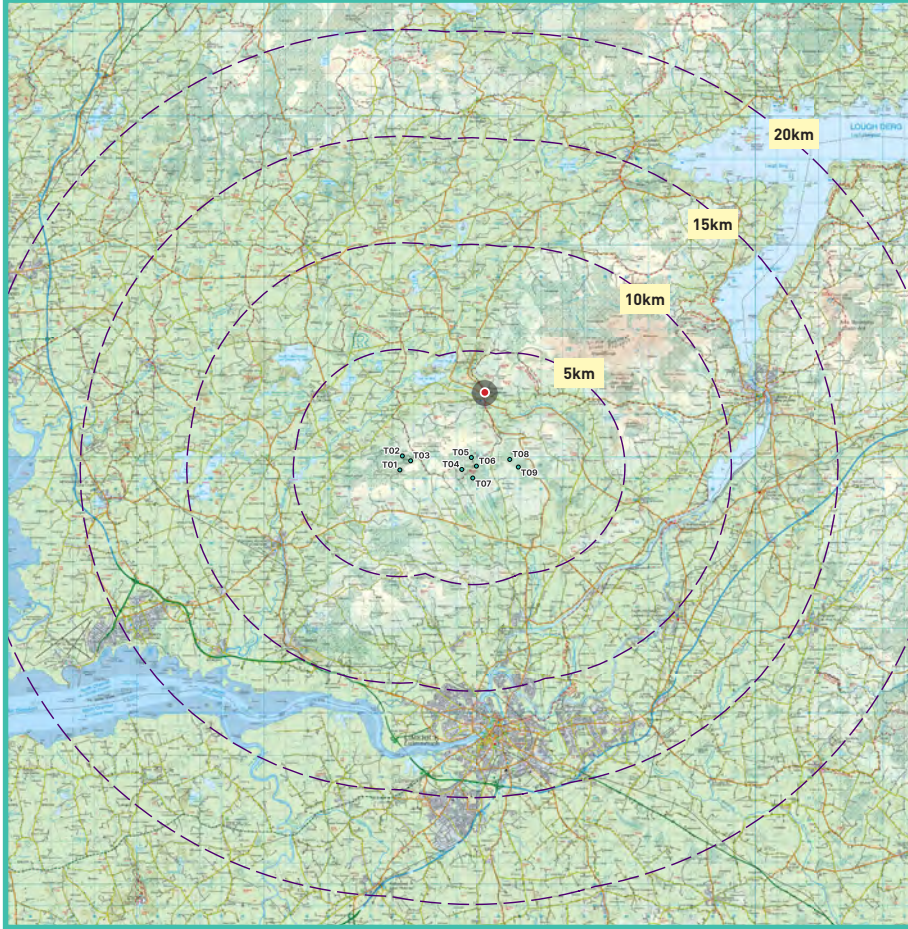
1

Broadford

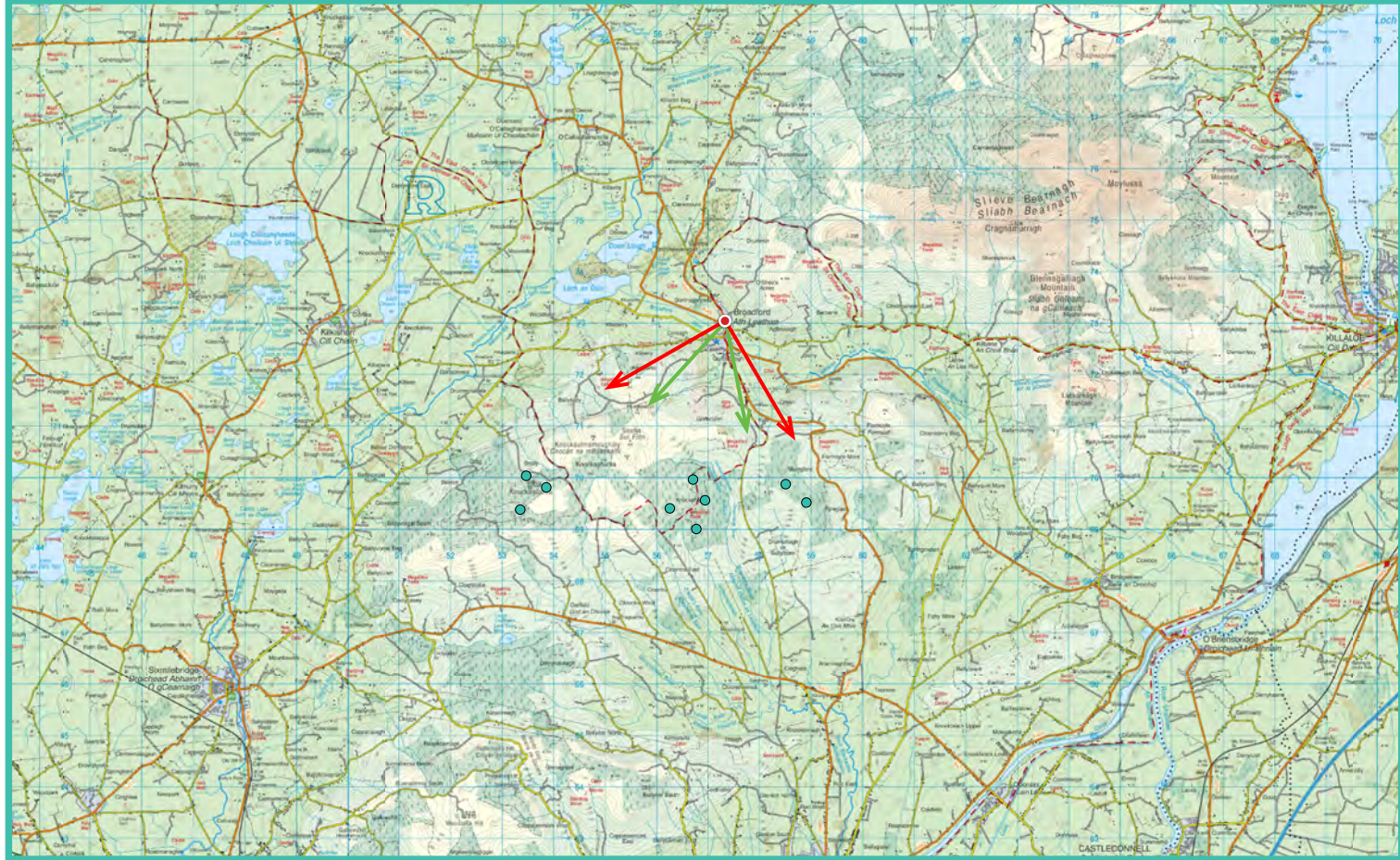
Photomontage 1

View from St. Peter's Church in the village of Broadford, within the towland of O'Shea's Acres. This viewpoint is located approximately 3.1km north of the nearest proposed turbine (T5).

View point grid reference	E 557298 N 673084
Date of image taken	13/09/2022
Time of image taken	07:56
View point elevation	36m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	195°
Horizontal extent of proposed turbines	76°
Distance to nearest proposed turbine	3.1km (T5)
Number of proposed turbines visible	5/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
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View point relative to 20km radius.



View point relative to wind farm site.




Detail of view point location.

90° View Extent

Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

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°

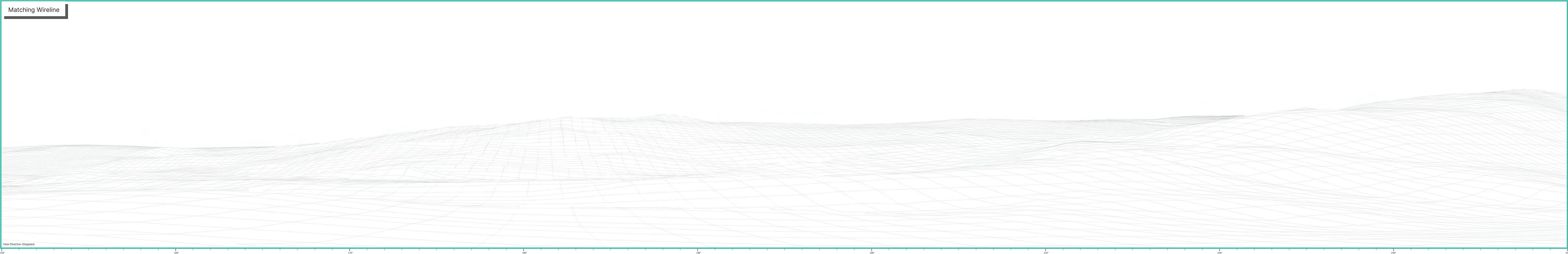
53.5° View Extent



Existing View at 90°



Matching Wireline

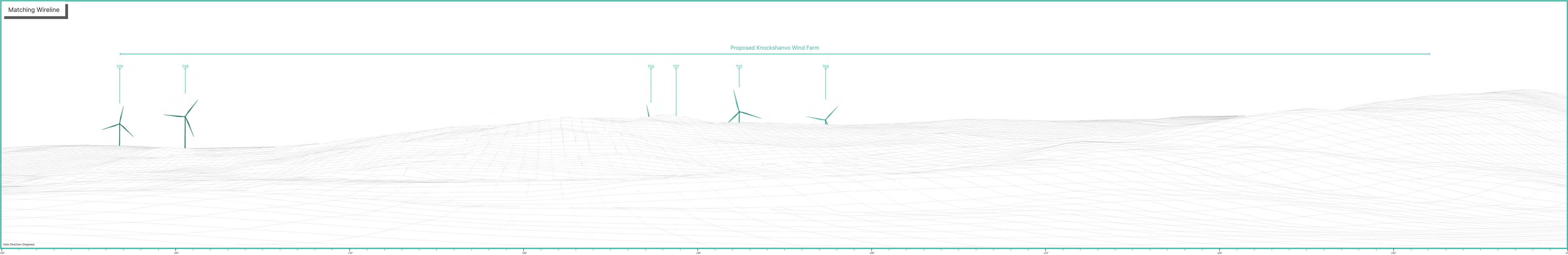




Proposed Knockshanvo at 90°



Matching Wireline

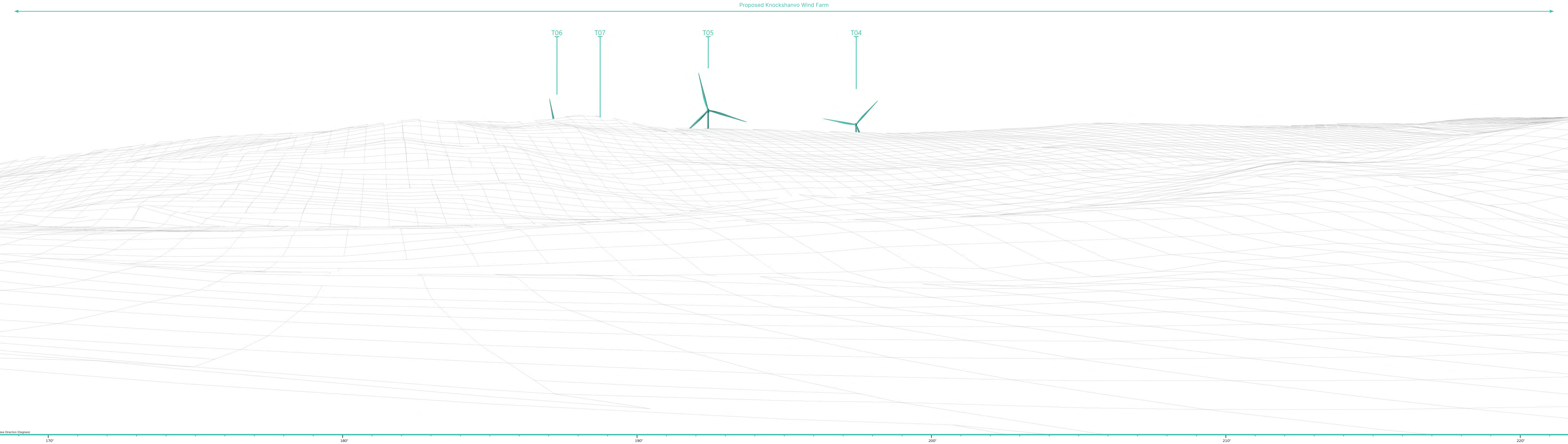




Proposed Knockshanvo at 53.5°







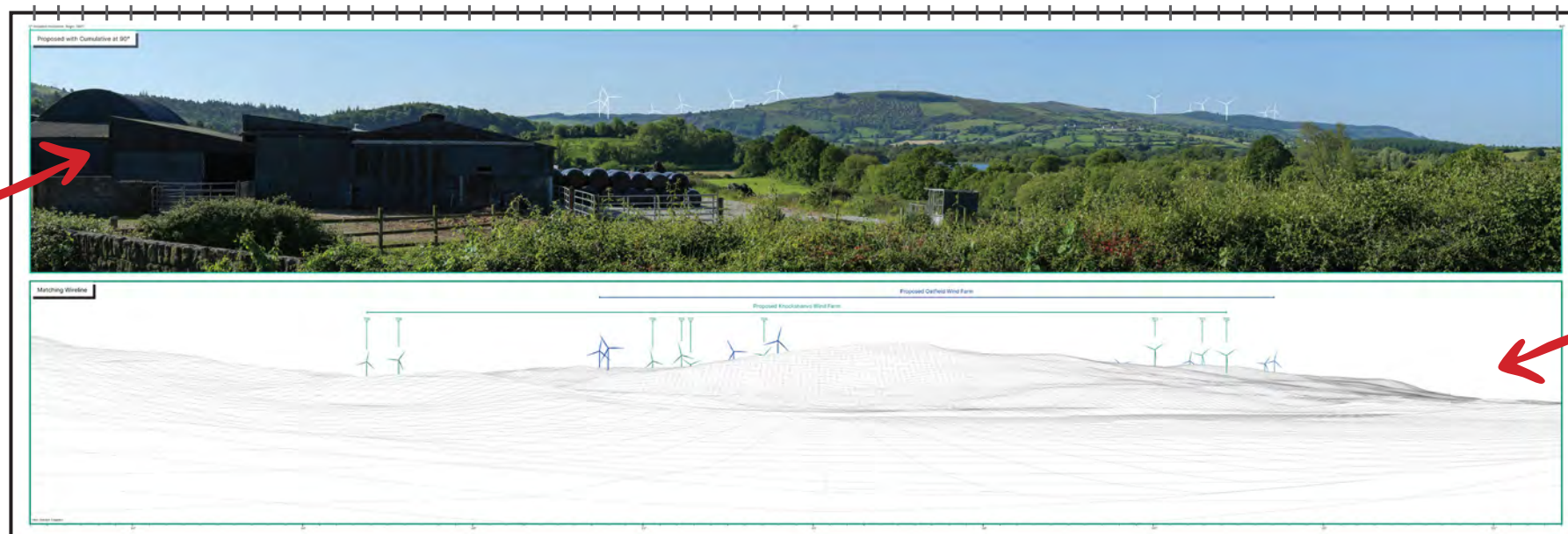


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



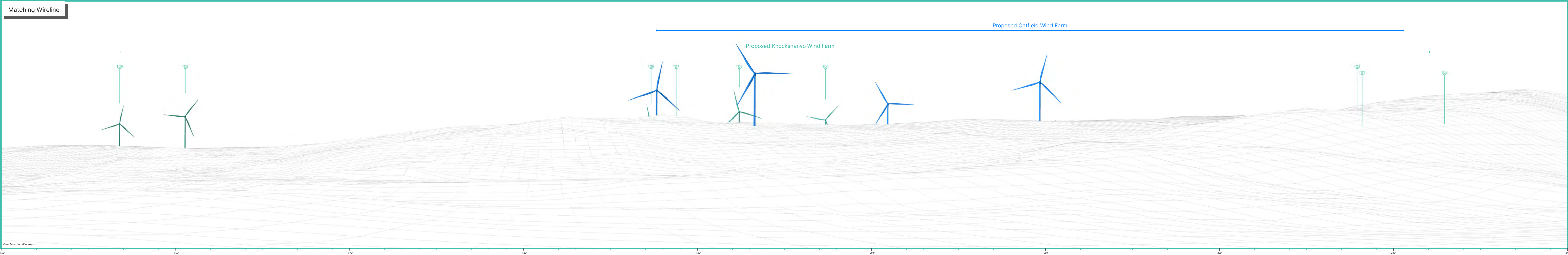
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast



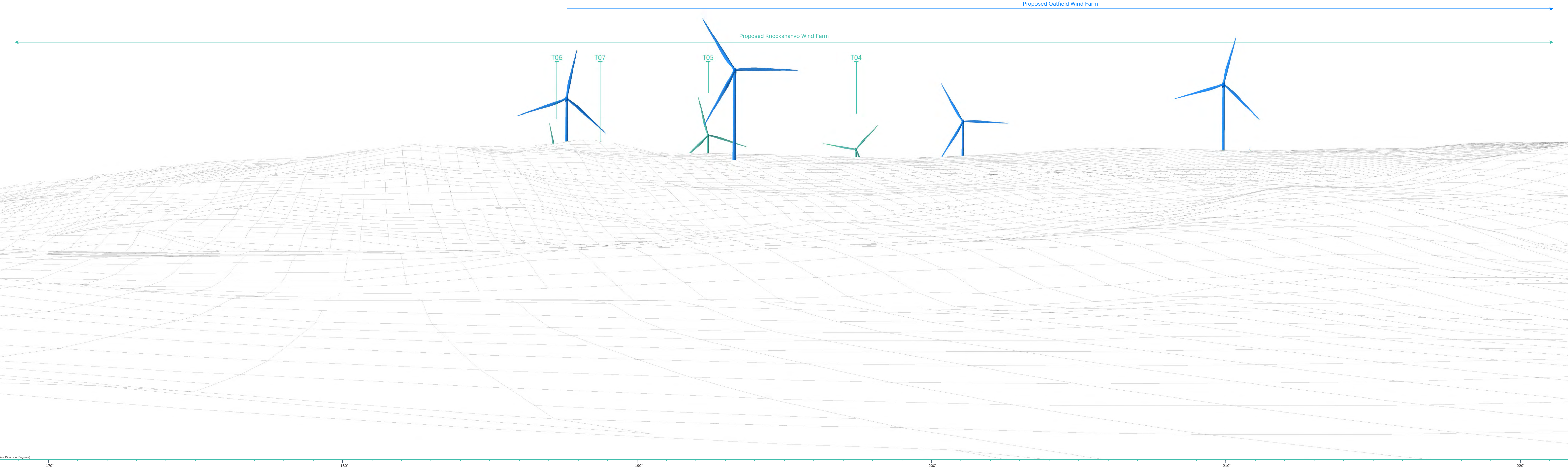




Proposed with Cumulative at 53.5°











View Point 2

Derryvinnaan

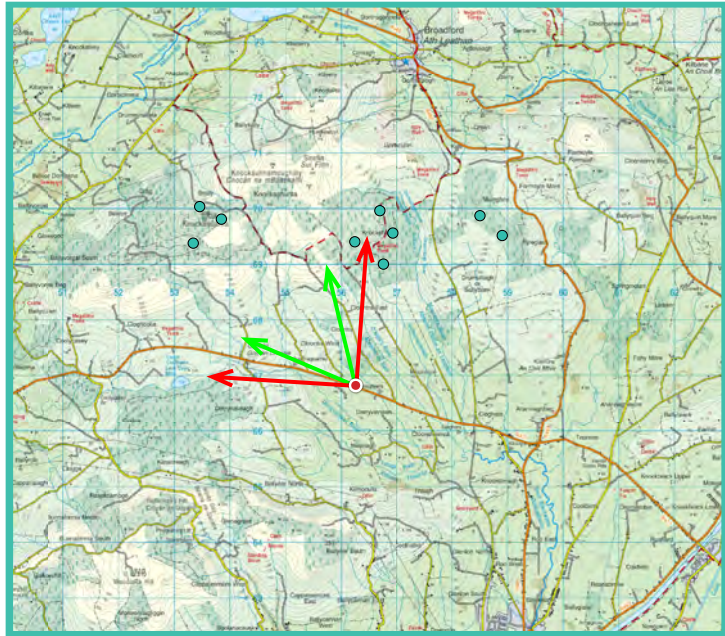
Photomontage 2

View from R471 regional road in the townland of Derryvinnaan. This viewpoint is located approximately 2.3km south from the nearest proposed turbine (T7).

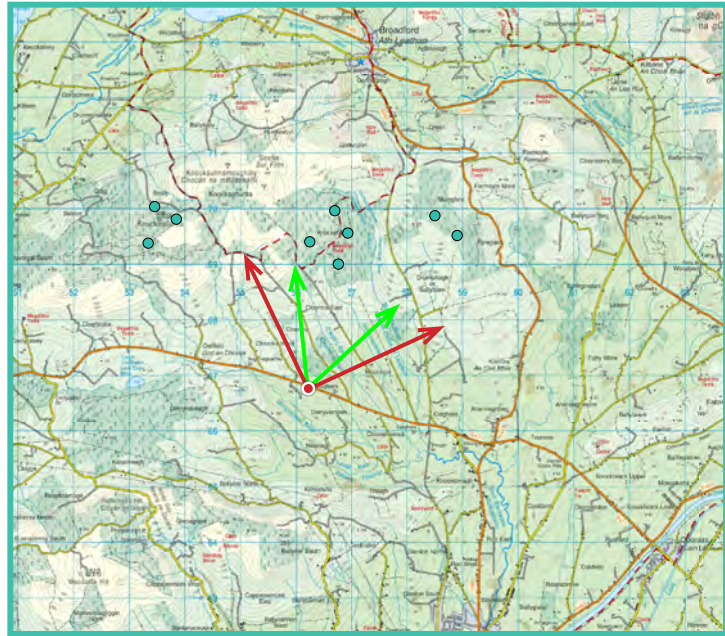
View point grid reference	E 556289 N 666813
Date of image taken	25/09/2023
Time of image taken	11:23
View point elevation	82m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	357°
Horizontal extent of proposed turbines	92°
Distance to nearest proposed turbine	2.3km (T7)
Number of proposed turbines visible	9/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
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View point relative to 20km radius.



View point relative to wind farm site. (VP12A)



View point relative to wind farm site. (VP12B)



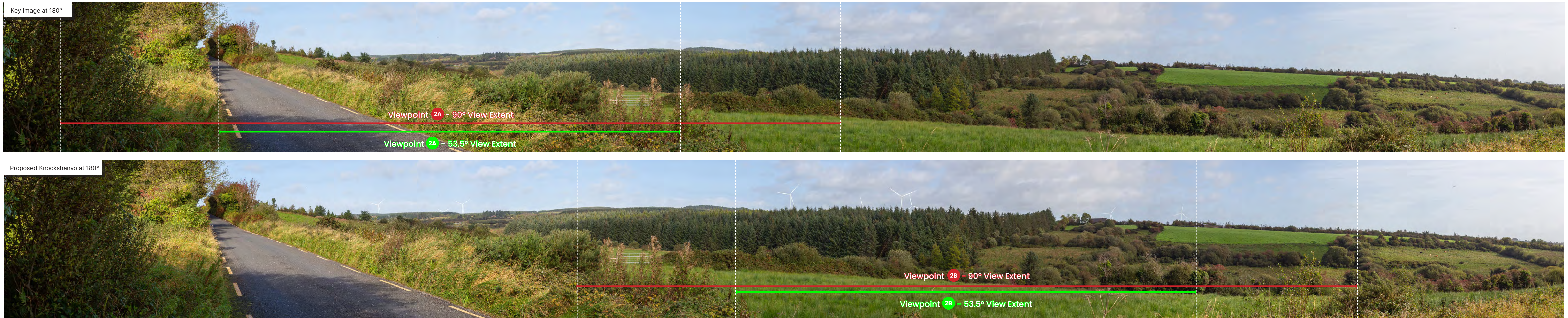
Detail of view point location.

Map Legend

- Area shown in 90° view
- Area shown in 53.5° view
- View Point
- Proposed Knockshanvo Turbines

Wireline Legend

- Proposed Knockshanvo Wind Farm
- Proposed Met Mast (105m)
- Existing Wind Farms
- Permitted Wind Farms
- Other Proposed Wind Farms

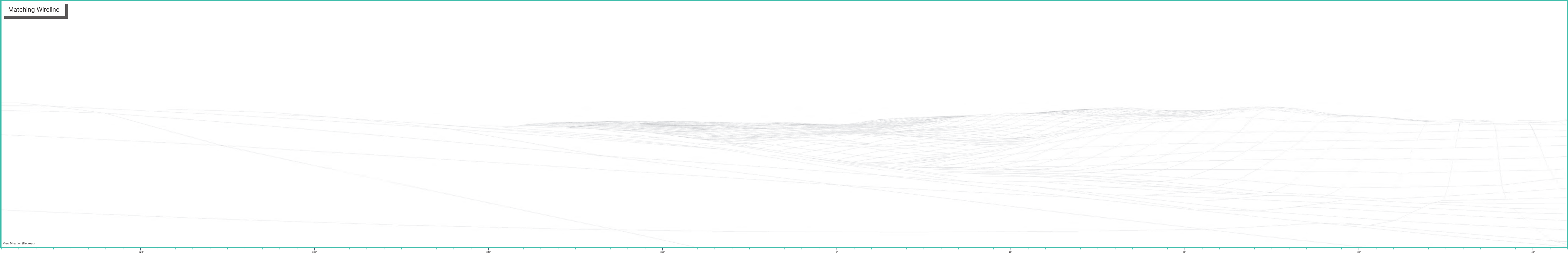




VP2A Existing View at 90° (View to North-West)



Matching Wireline

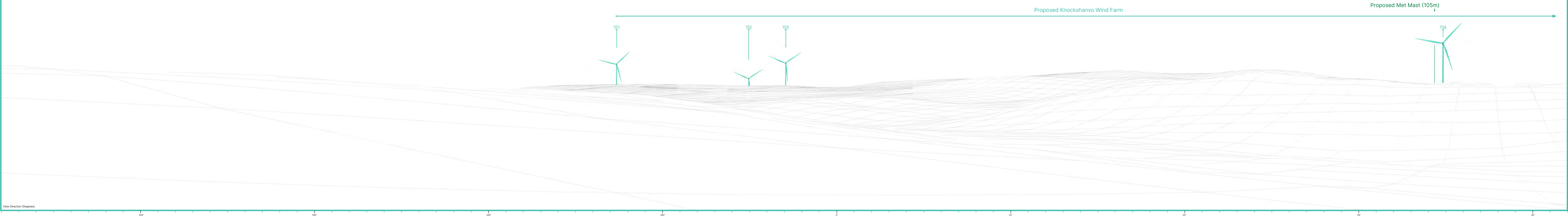




VP2A Proposed Knockshanvo at 90° (View to North-West)



Matching Wireline

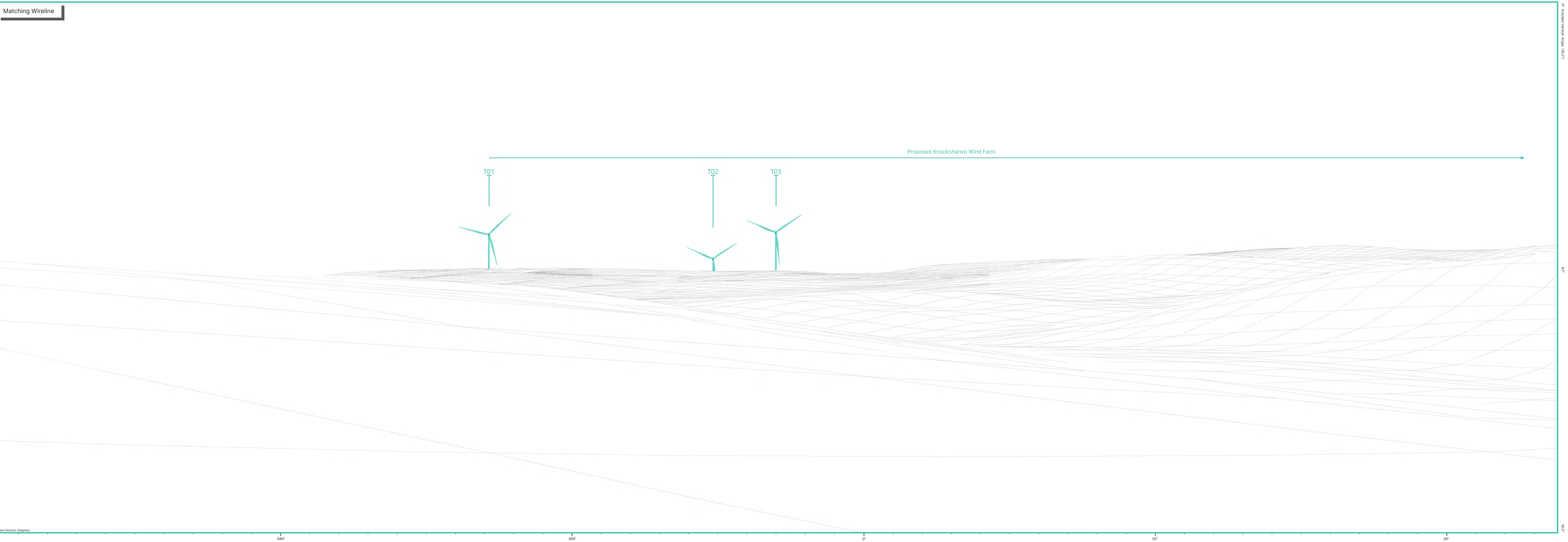




VP2A Proposed Knockshanvo at 53.5° (View to North-West)









# 'CUMULATIVE' VIEWS

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This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



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## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



Other Proposed Wind Farms

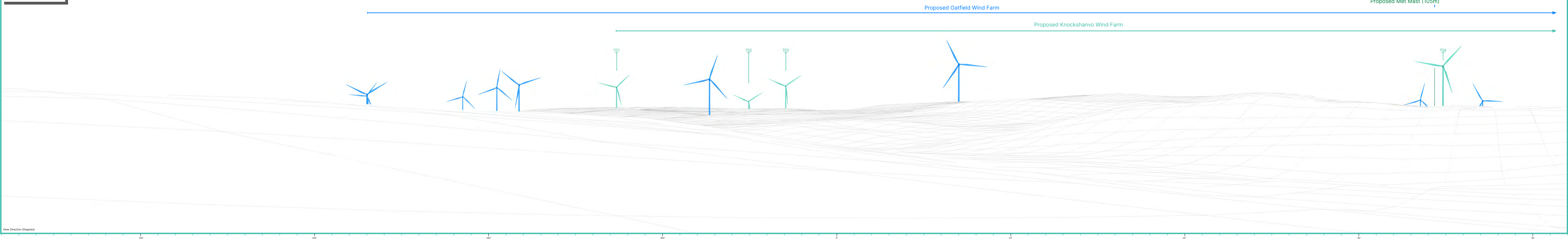
Proposed Met Mast



VP2A Proposed with Cumulative at 90° (View to North-West)



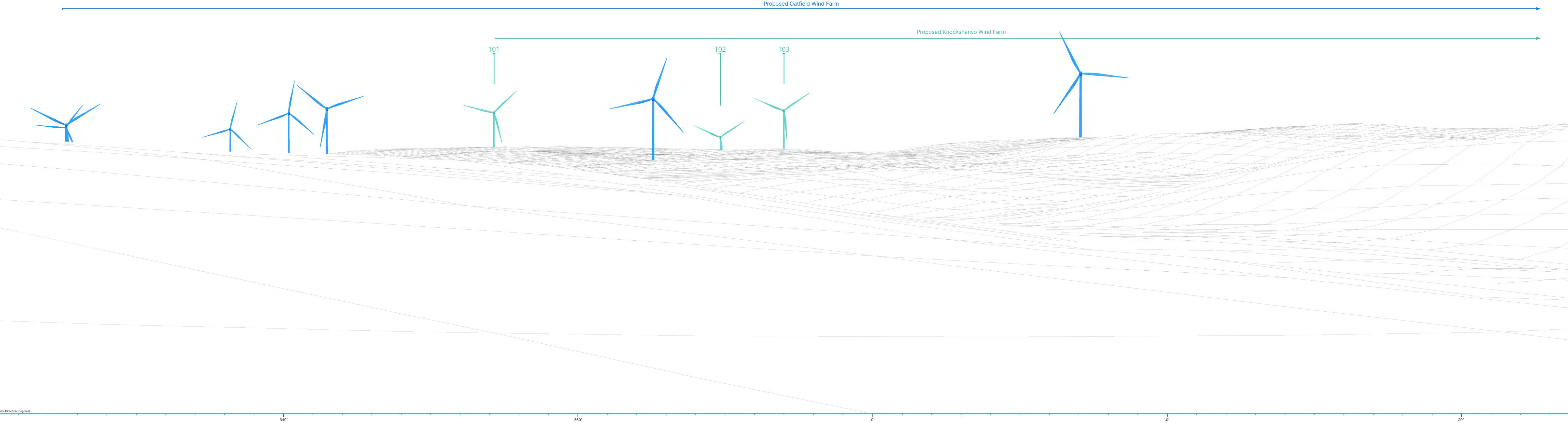
Matching Wireline









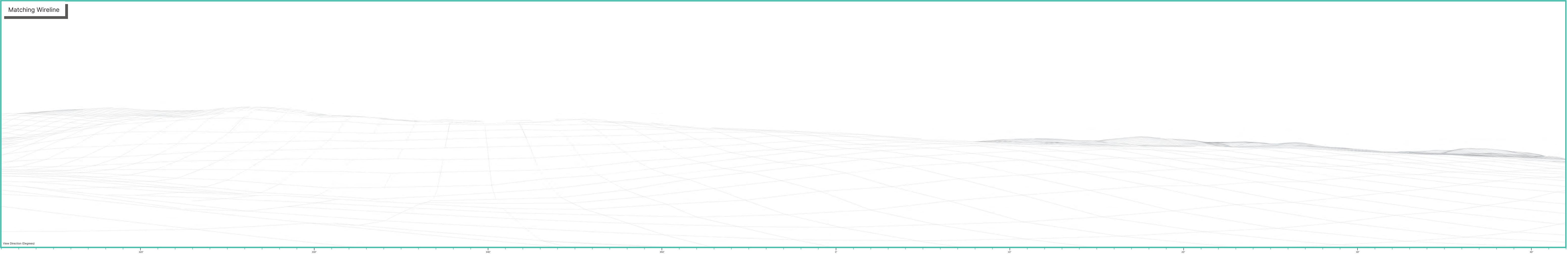




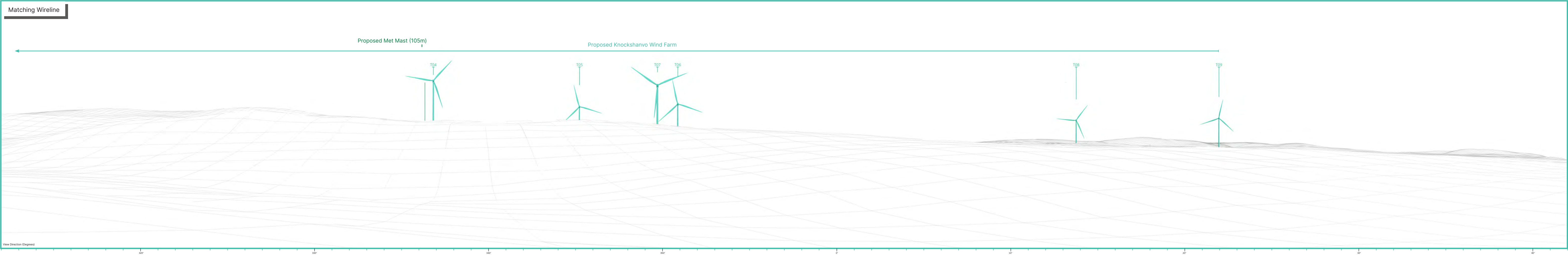
VP2B Existing View at 90° (View to North-West)



Matching Wireline





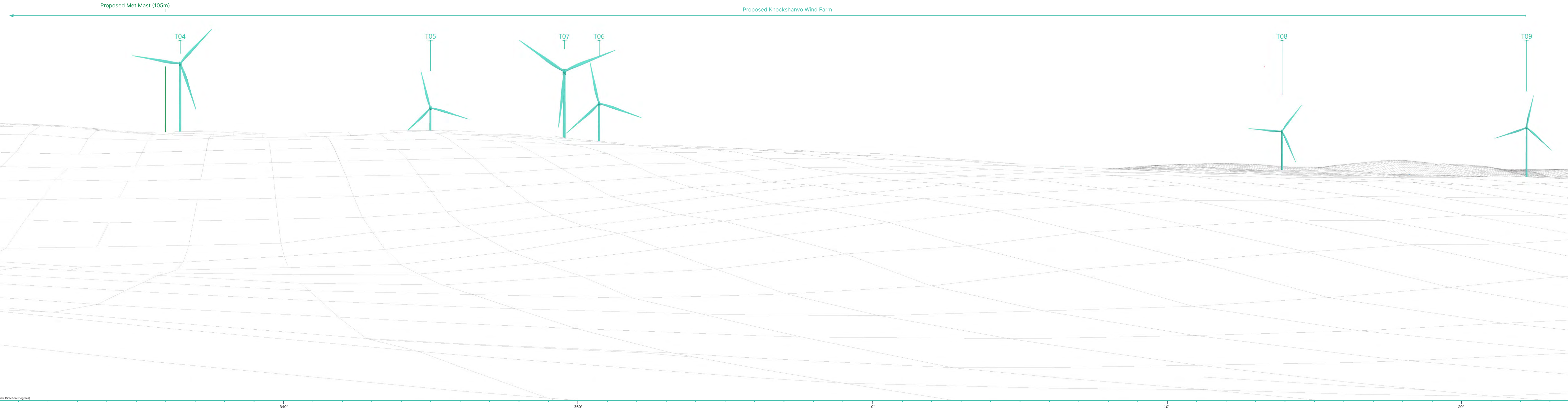




VP2B Proposed Knockshanvo at 53.5° (View to North-North East)







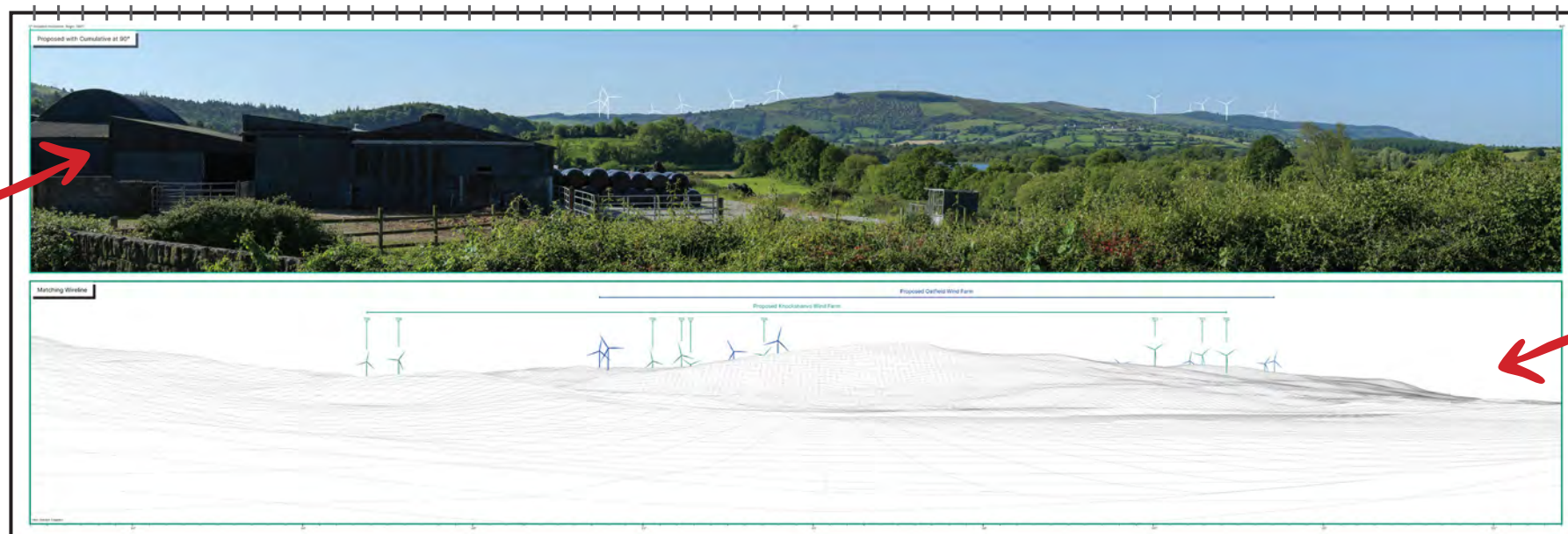


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This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



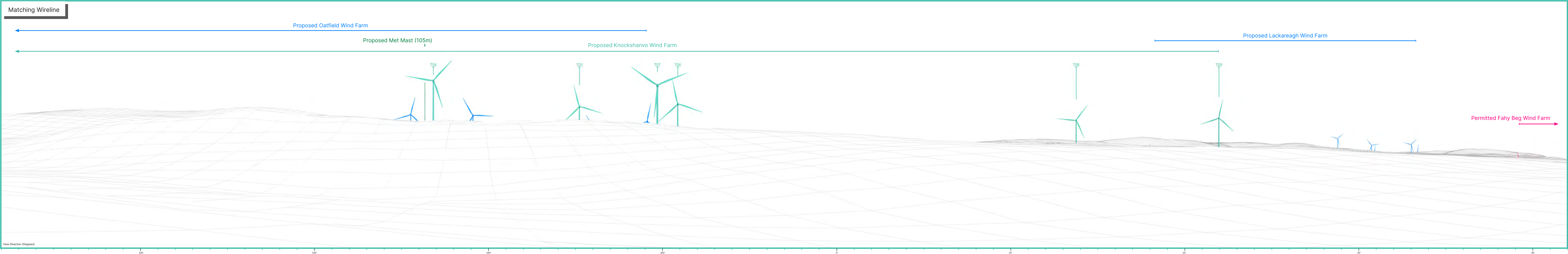
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast



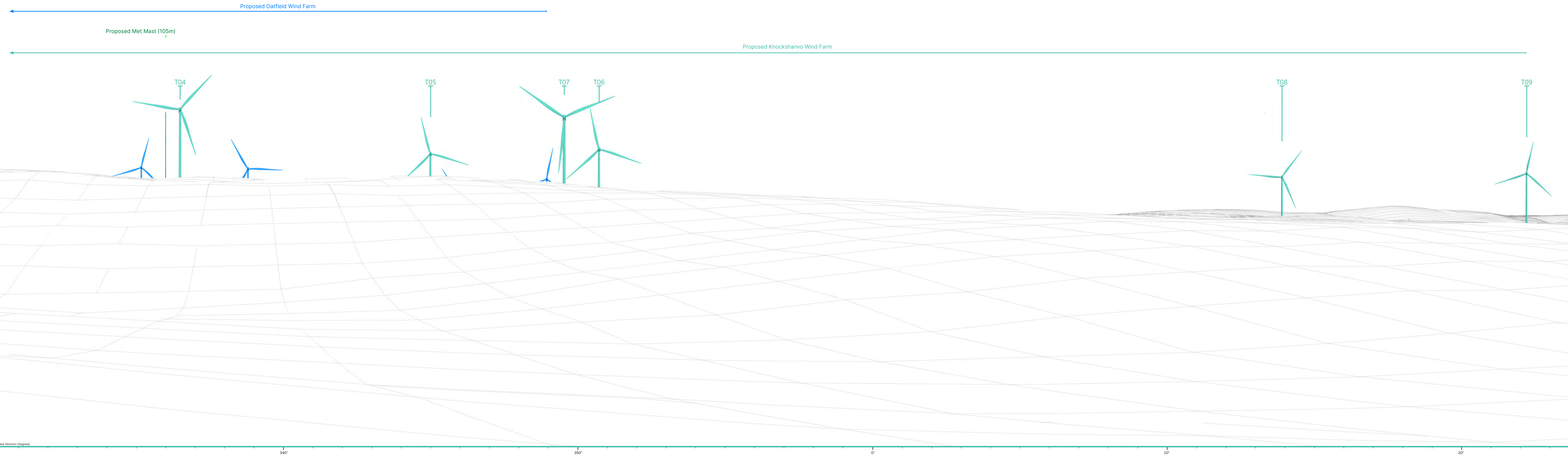




VP2B Proposed with Cumulative at 53.5° (View to North-North East)







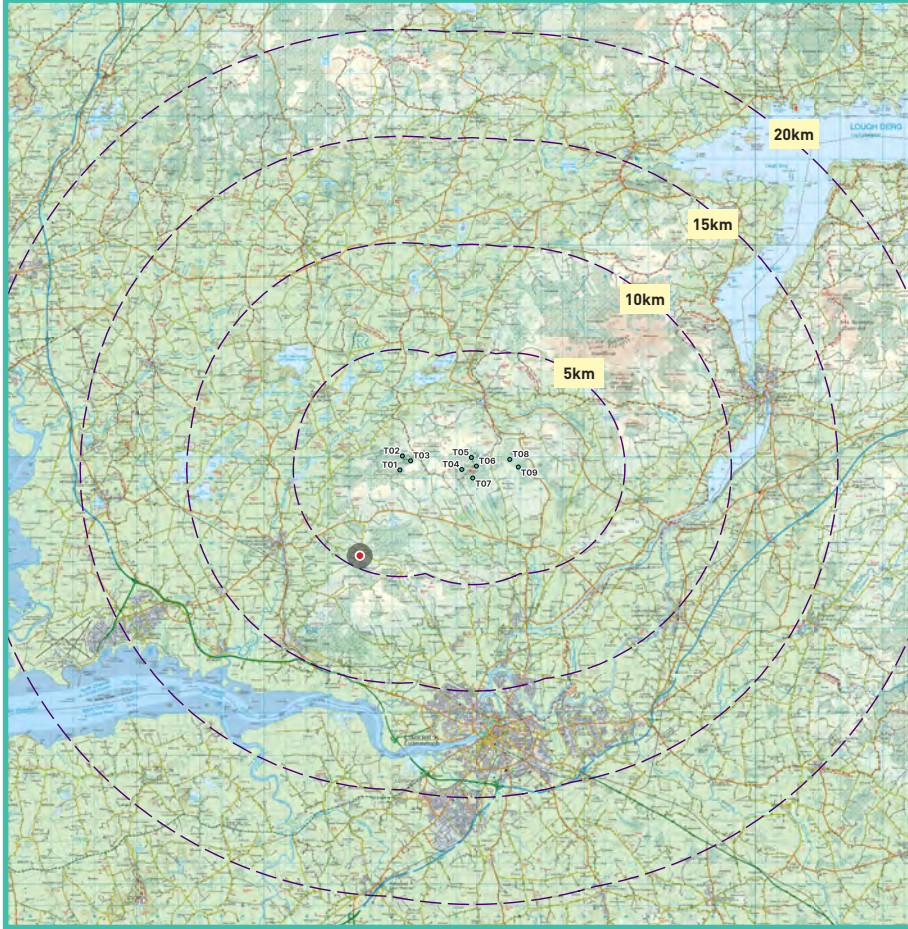




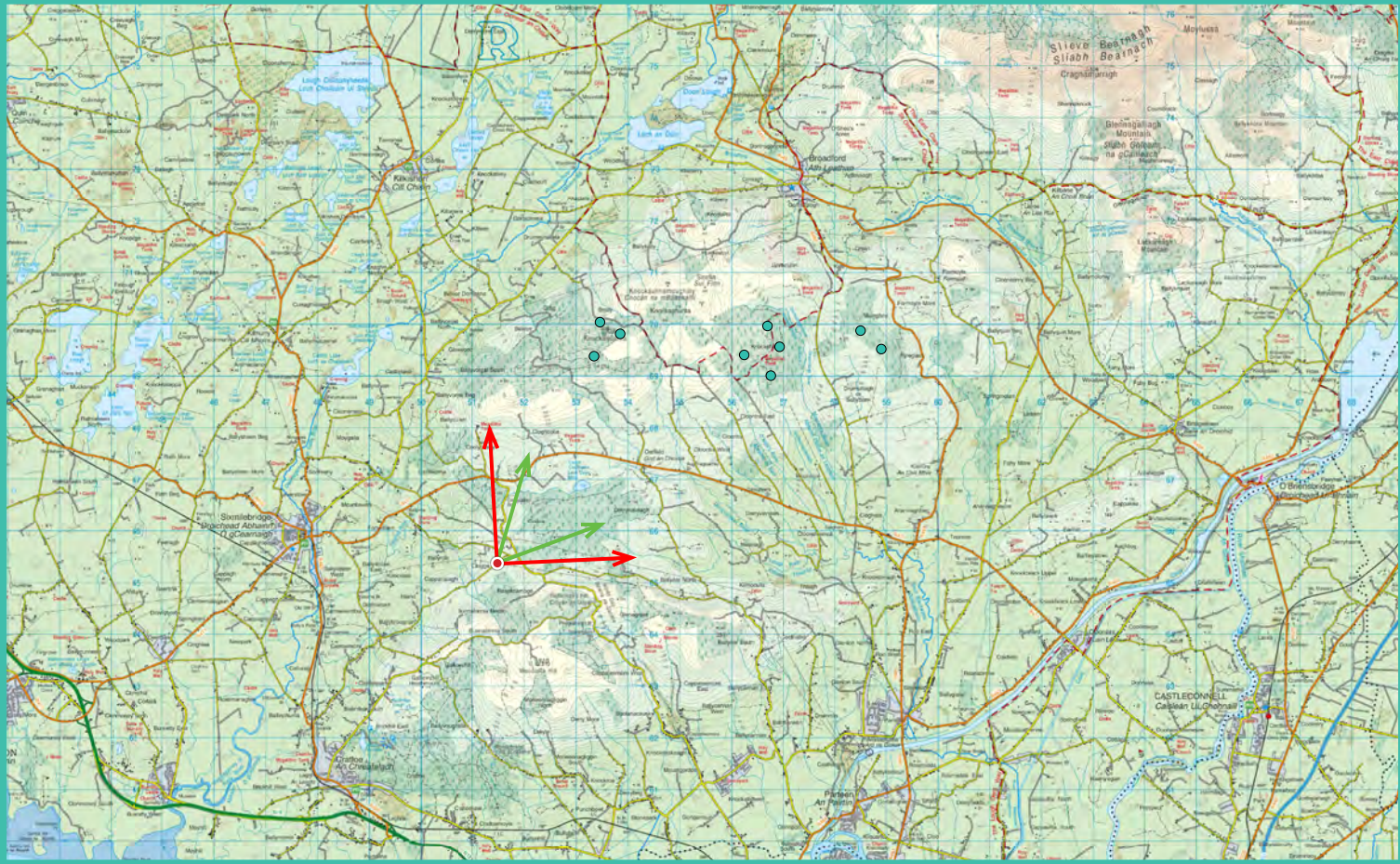
Photomontage 3

View from the townland of Clogga along County Clare designated Scenic Route SR-22 (CCDP 2023–2029). This viewpoint is located approximately 4.4km south of the nearest proposed turbine (T1).

View point grid reference	E 551434 N 665426
Date of image taken	13/09/2022
Time of image taken	12:31
View point elevation	136m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	42°
Horizontal extent of proposed turbines	38°
Distance to nearest proposed turbine	4.4km (T1)
Number of proposed turbines visible	3/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.




Detail of view point location.

Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

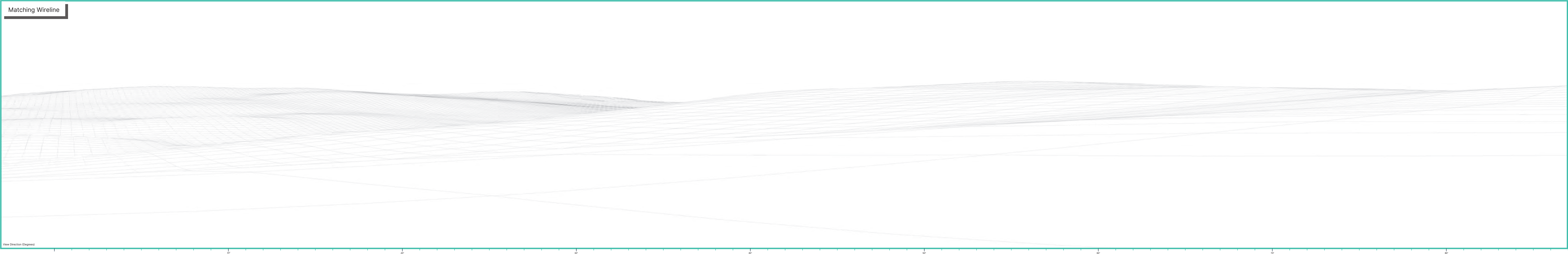
MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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

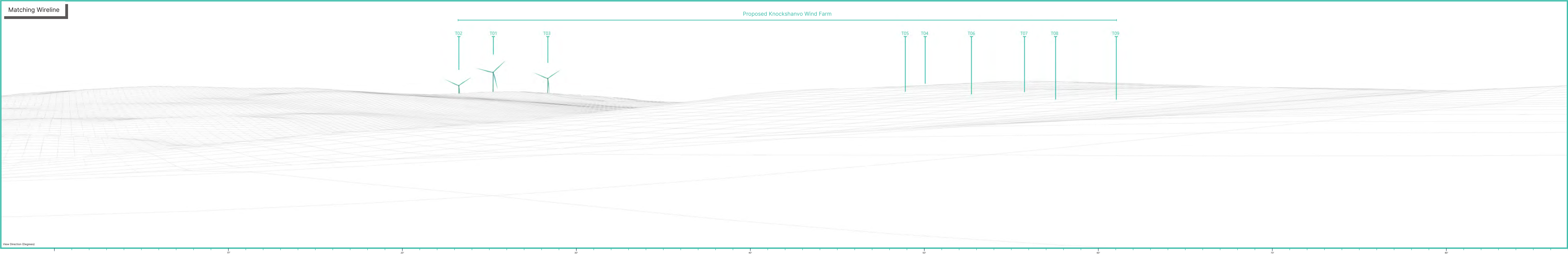


53.5° View Extent







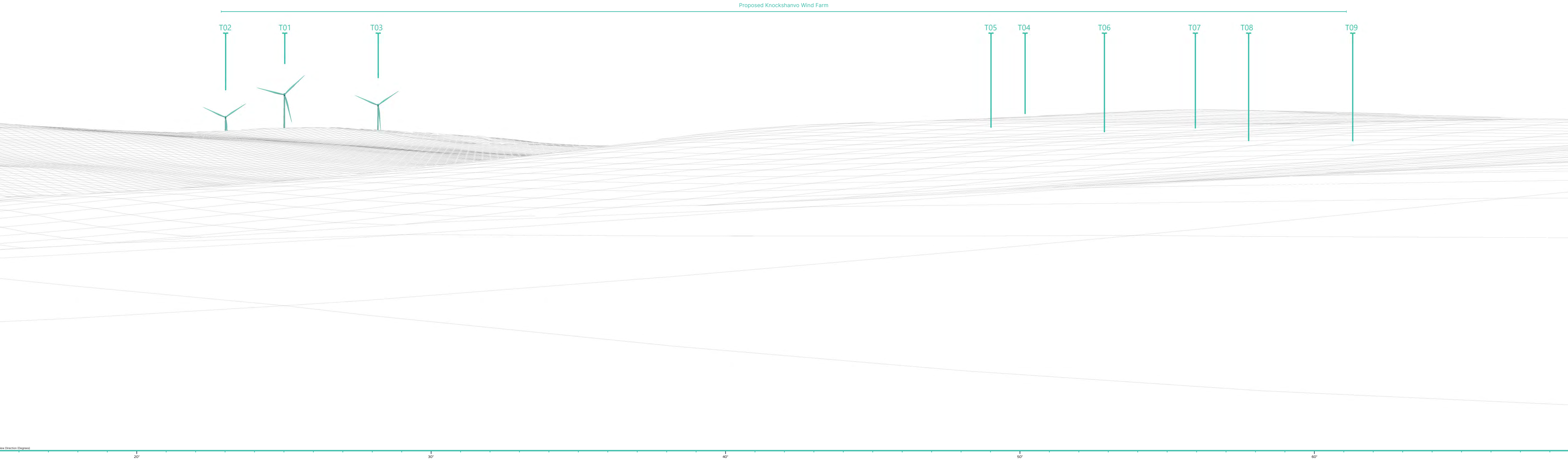




Proposed Knockshanvo at 53.5°







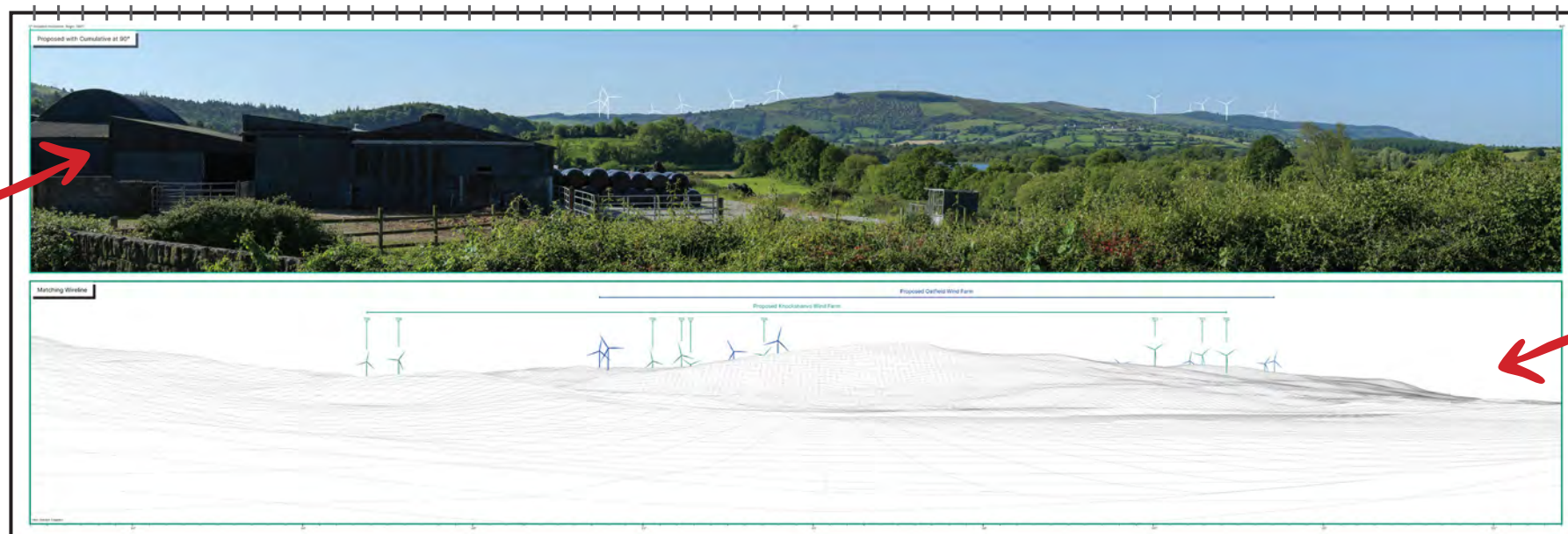


# 'CUMULATIVE' VIEWS

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This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



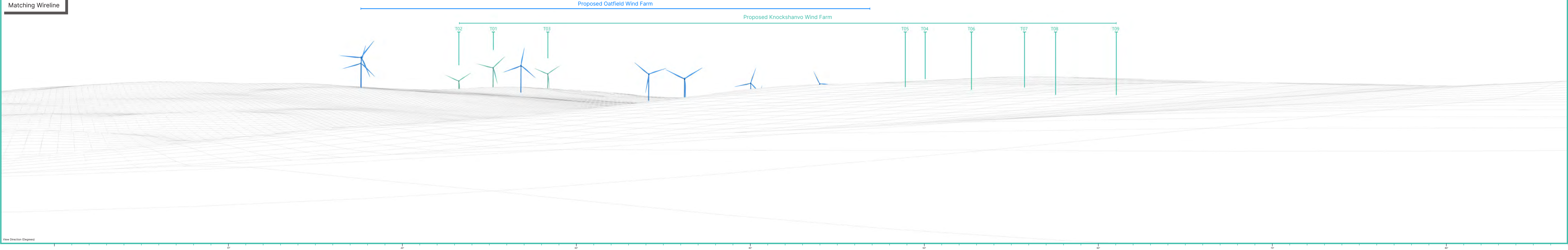
Other Proposed Wind Farms

Proposed Met Mast





Matching Wireline







0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed Proposed with Cumulative at 53.5°

View Direction (Degrees)

20°

30°

40°

50°

60°

81°

18.2°



Proposed Oatfield Wind Farm

Proposed Knockshanvo Wind Farm

T02

T01

T03

T05

T04

T06

T07

T08

T09







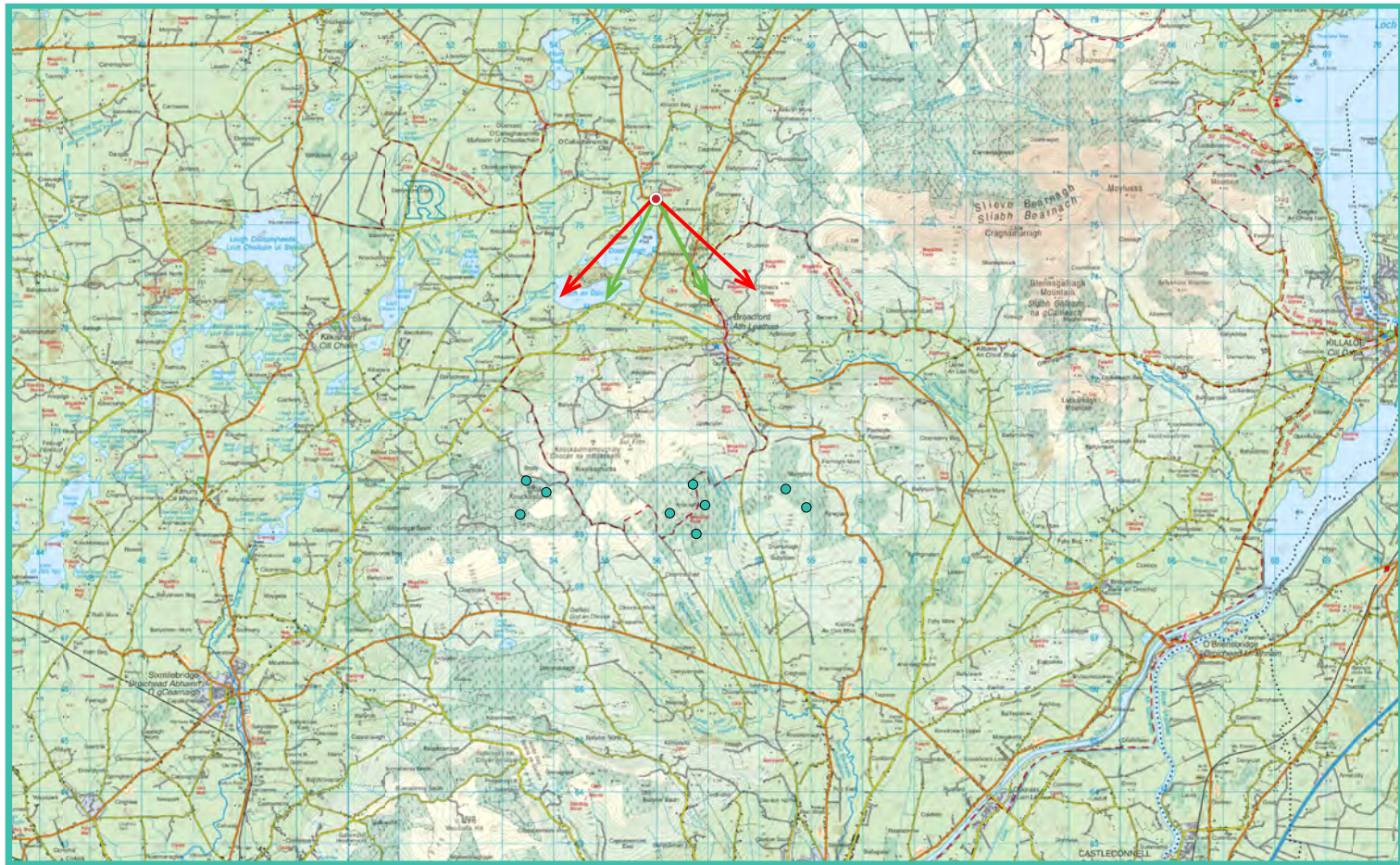
Photomontage 4

View from the townland of Moanogeenagh along County Clare designated Scenic Route SR-25 (CCDP 2023–2029). This viewpoint is located approximately 5.6km north of the nearest proposed turbine (T5).

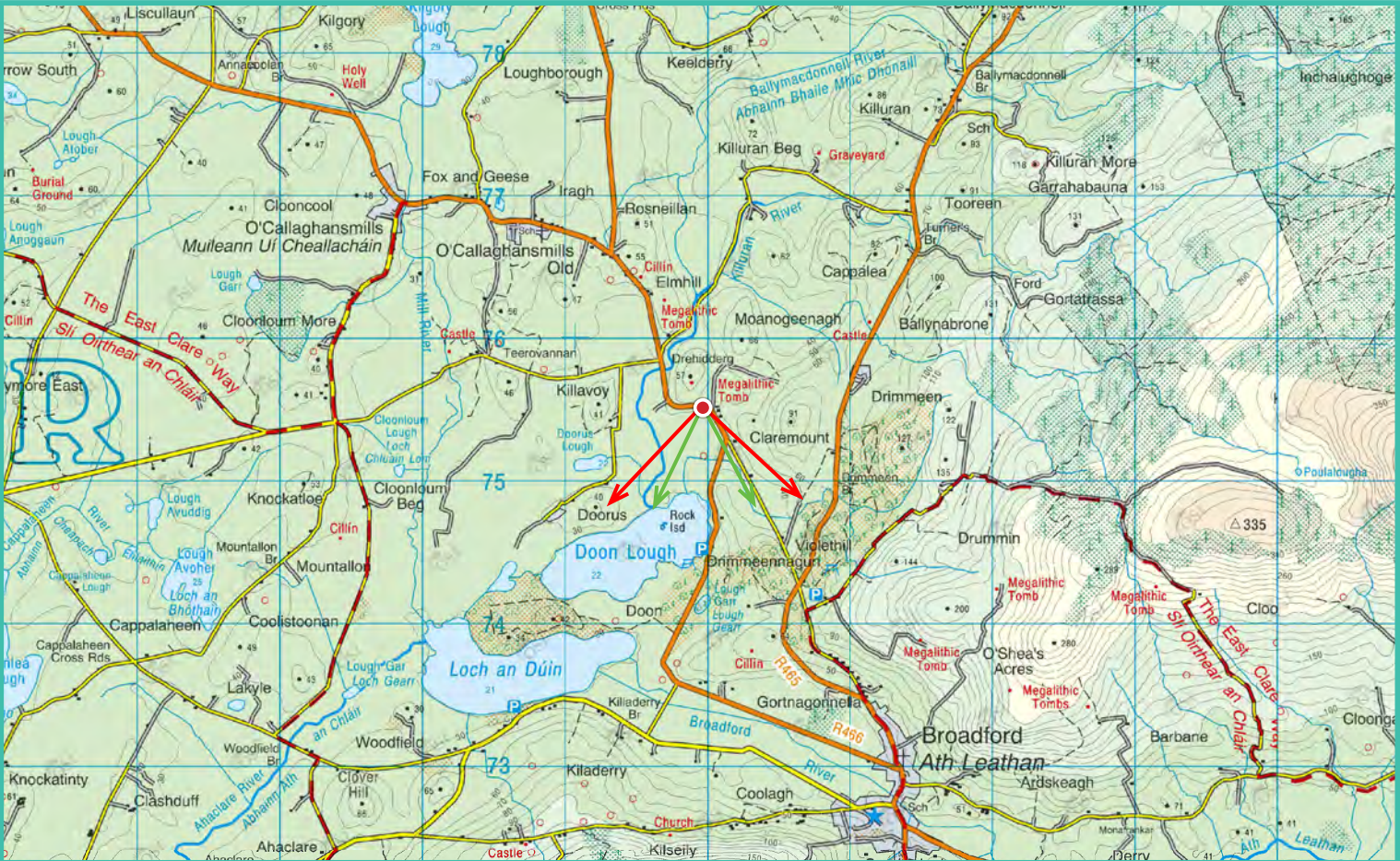
View point grid reference	E 555927 N 675571
Date of image taken	30/05/2023
Time of image taken	09:20
View point elevation	33m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	179°
Horizontal extent of proposed turbines	50°
Distance to nearest proposed turbine	5.6km (T5)
Number of proposed turbines visible	9/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.



Detail of view point location.

Map Legend

Area shown in 90° view Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

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°

90° View Extent

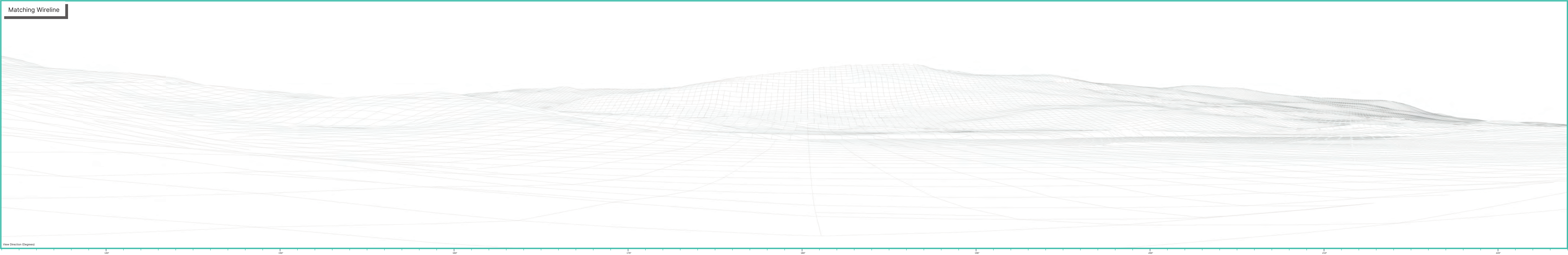
53.5° View Extent



Existing View at 90°



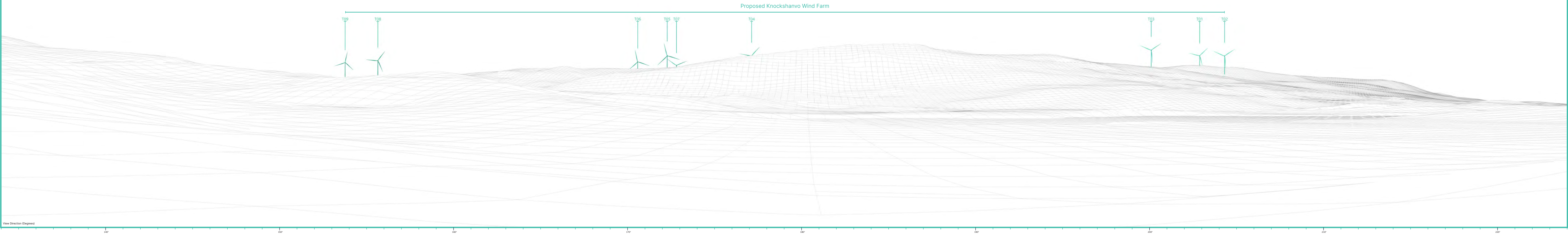
Matching Wireline







Matching Wireline







0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed Knockshanvo at 53.5°

View Direction (Degrees)

160°

170°

180°

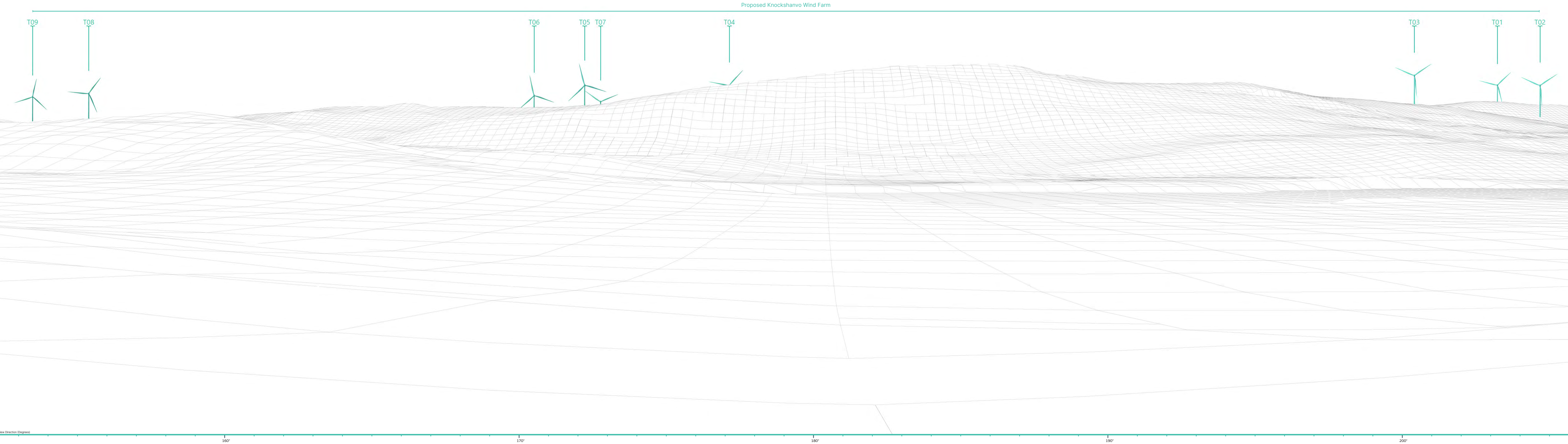
190°

200°

31°

18.2°





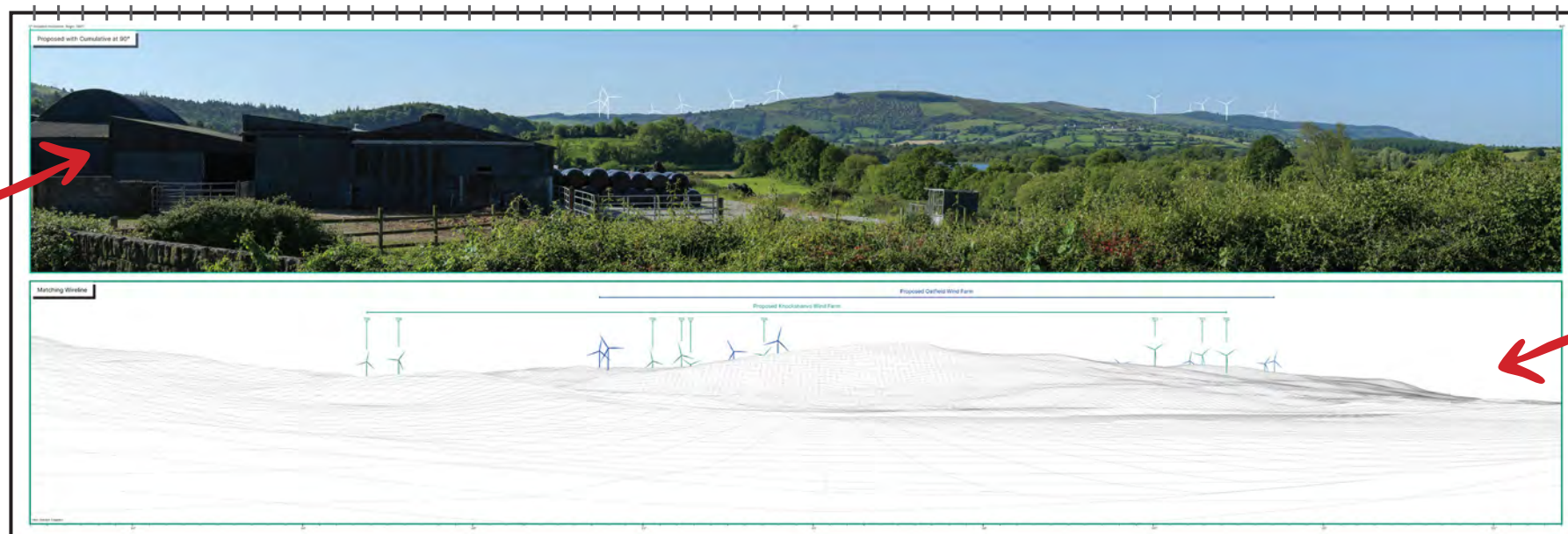


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## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



Other Proposed Wind Farms

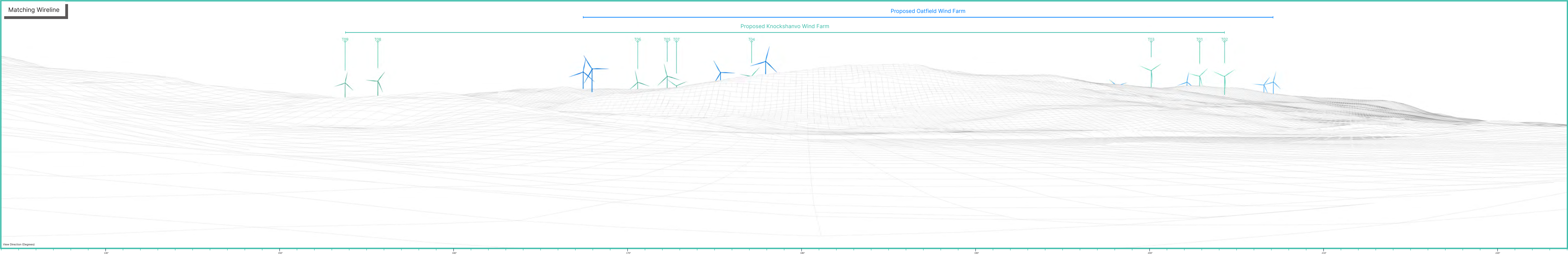
Proposed Met Mast



Proposed with Cumulative at 90°



Matching Wireline







0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed with Cumulative at 53.5°

View Direction (Degrees)

160°

170°

180°

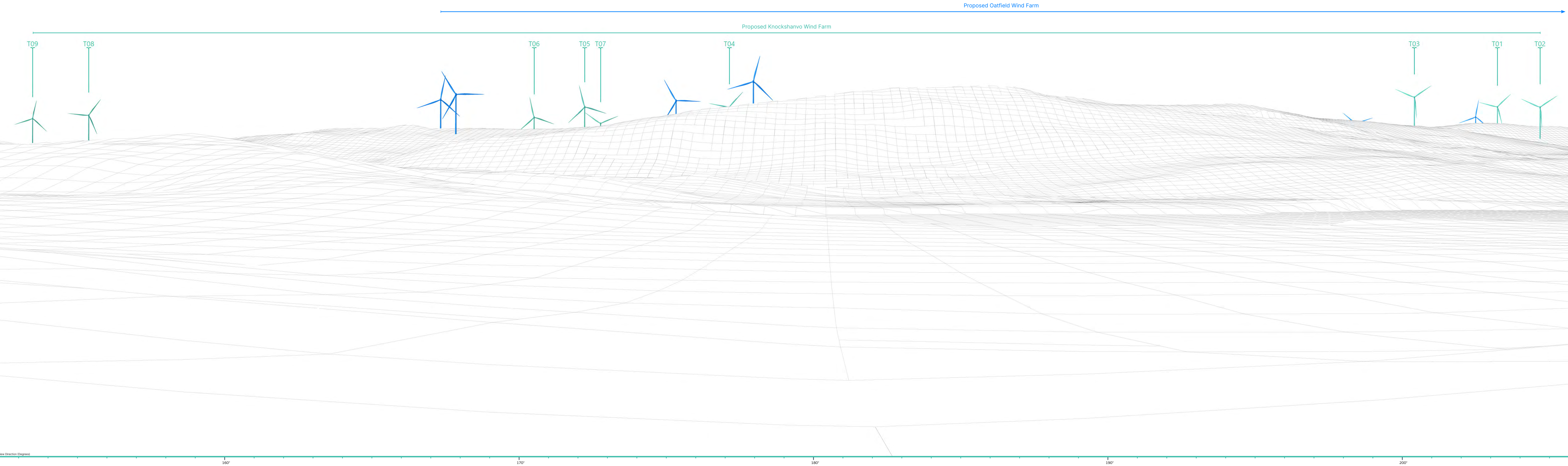
190°

200°

31°

18.2°







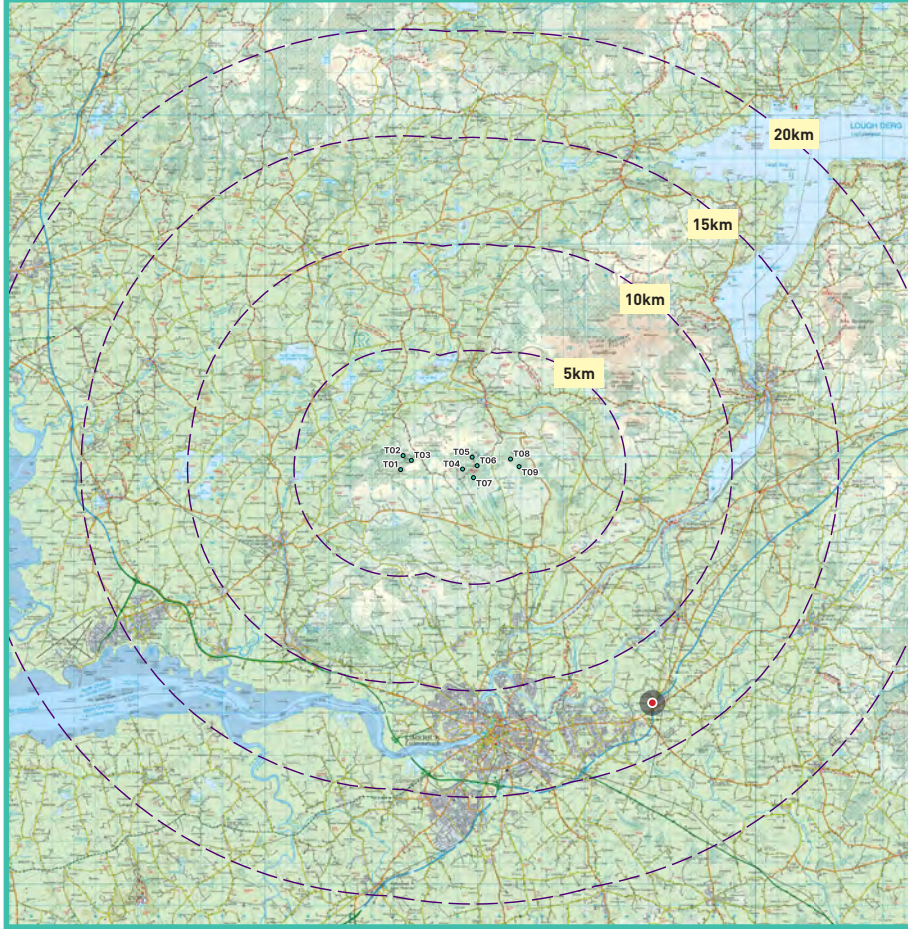




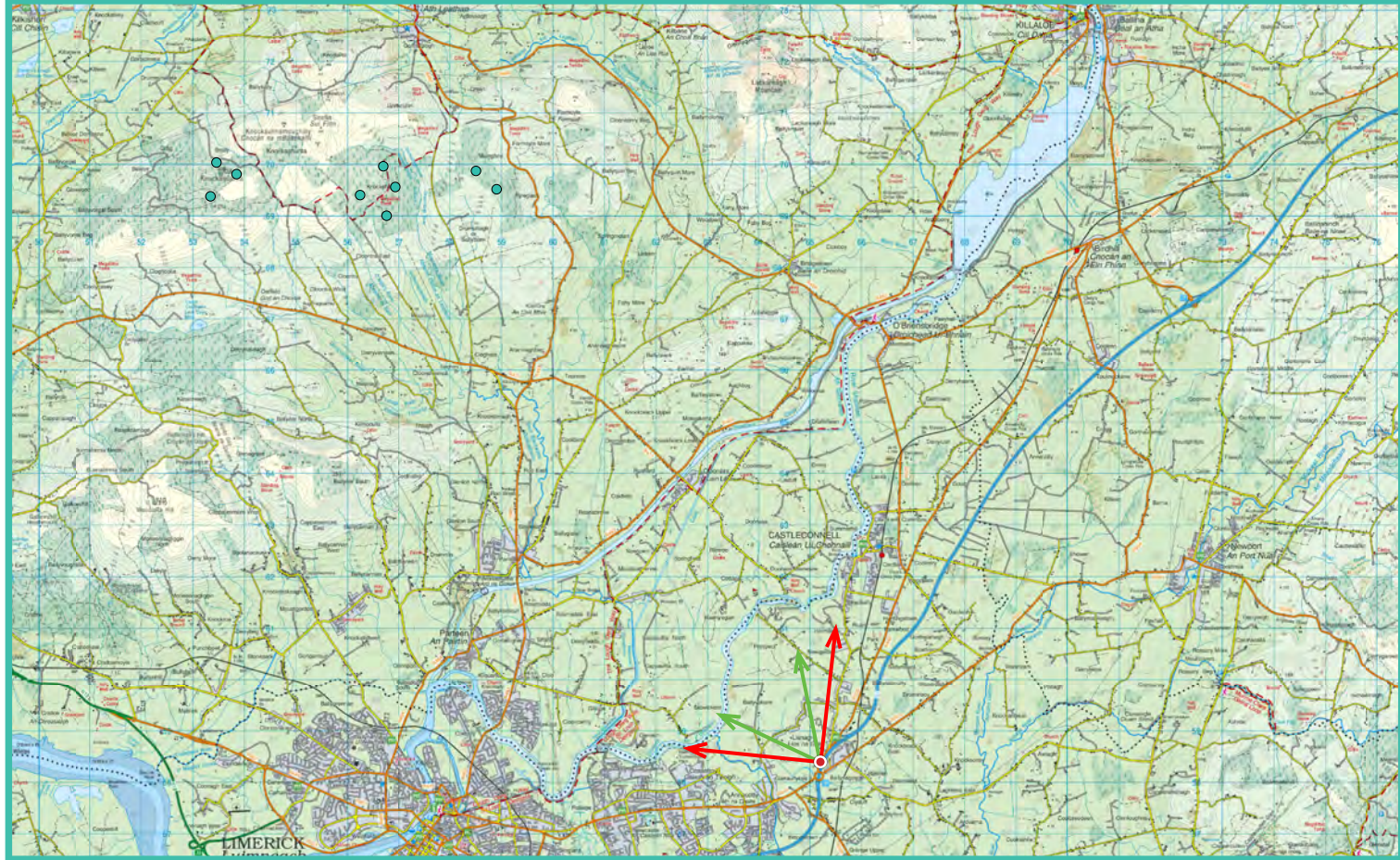
Photomontage 5

View from the R445 regional road in the townland of Mountshannon. This viewpoint is located approximately 12.8km southeast from the nearest proposed turbine (T9).

View point grid reference	E 565159   N 658448
Date of image taken	30/05/2023
Time of image taken	11:17
View point elevation	25m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	321°
Horizontal extent of proposed turbines	18°
Distance to nearest proposed turbine	12.8km (T9)
Number of proposed turbines visible	7/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
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Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.

90° View Extent



Detail of view point location.

Map Legend

Area shown in 90° view   Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

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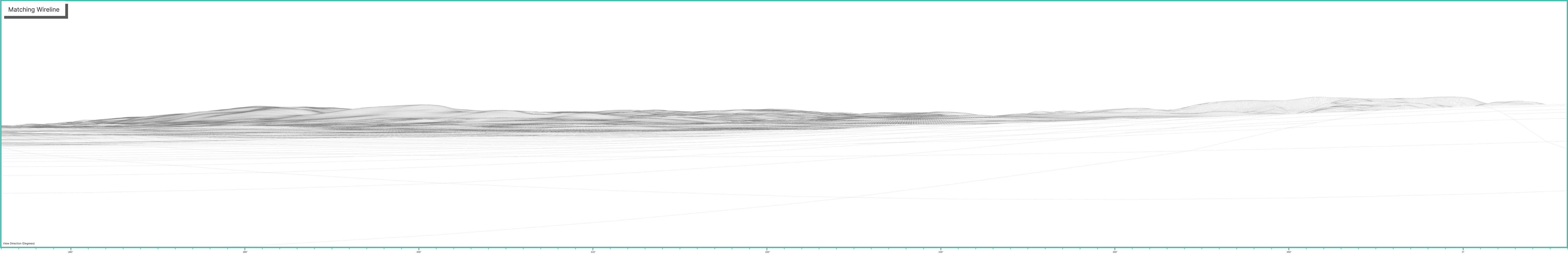
53.5° View Extent



Existing View at 90°



Matching Wireline

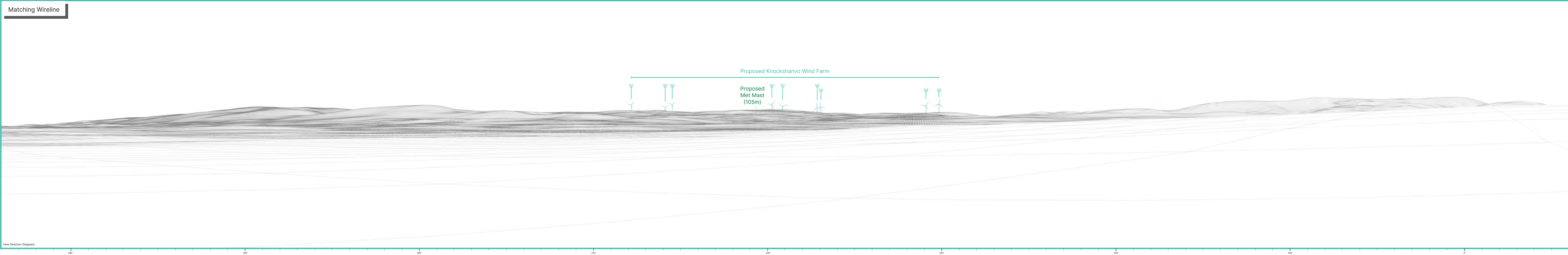




Proposed Knockshanvo at 90°



Matching Wireline

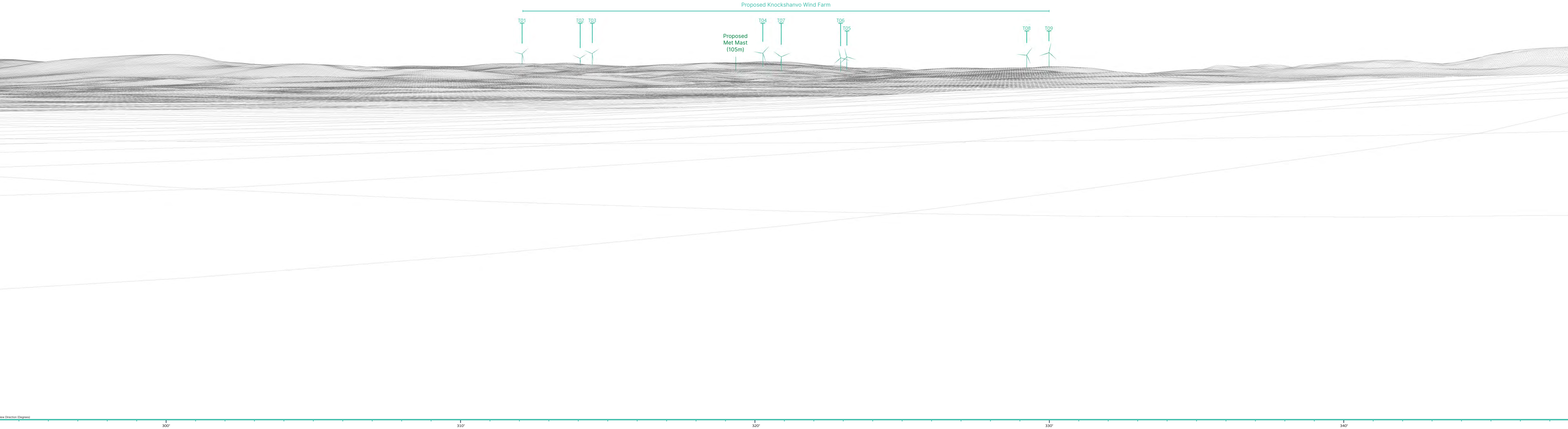




Proposed Knockshanvo at 53.5°







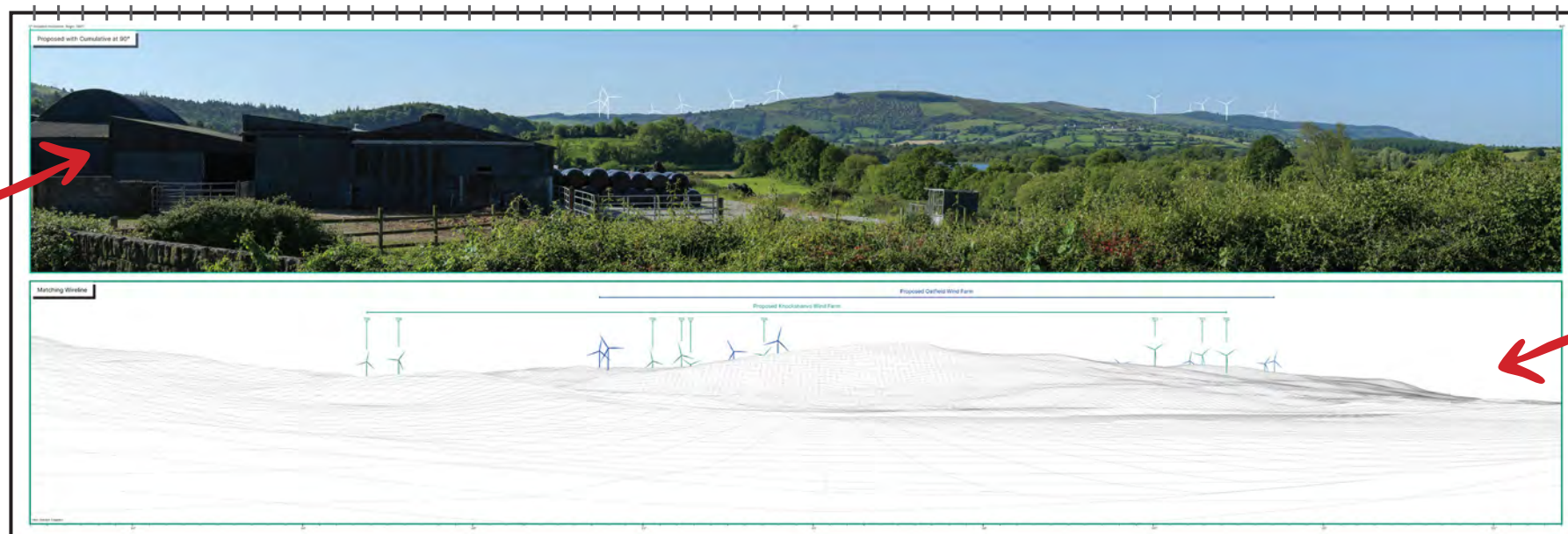


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Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



Other Proposed Wind Farms

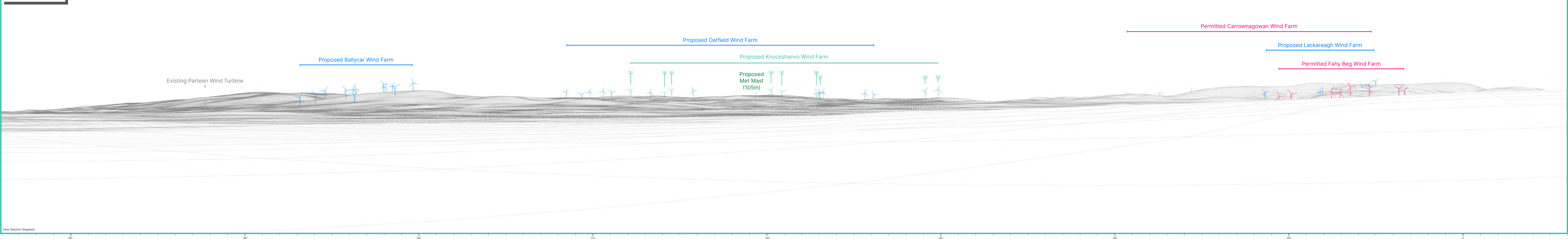
Proposed Met Mast



Proposed with Cumulative at 90°



Matching Wireline

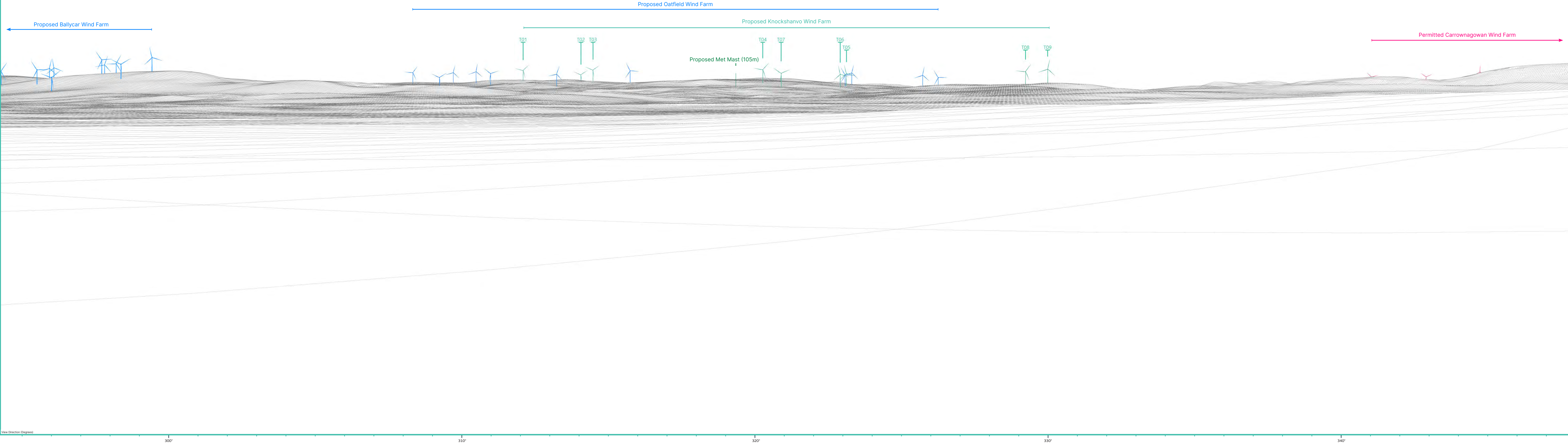




Proposed with Cumulative at 53.5°









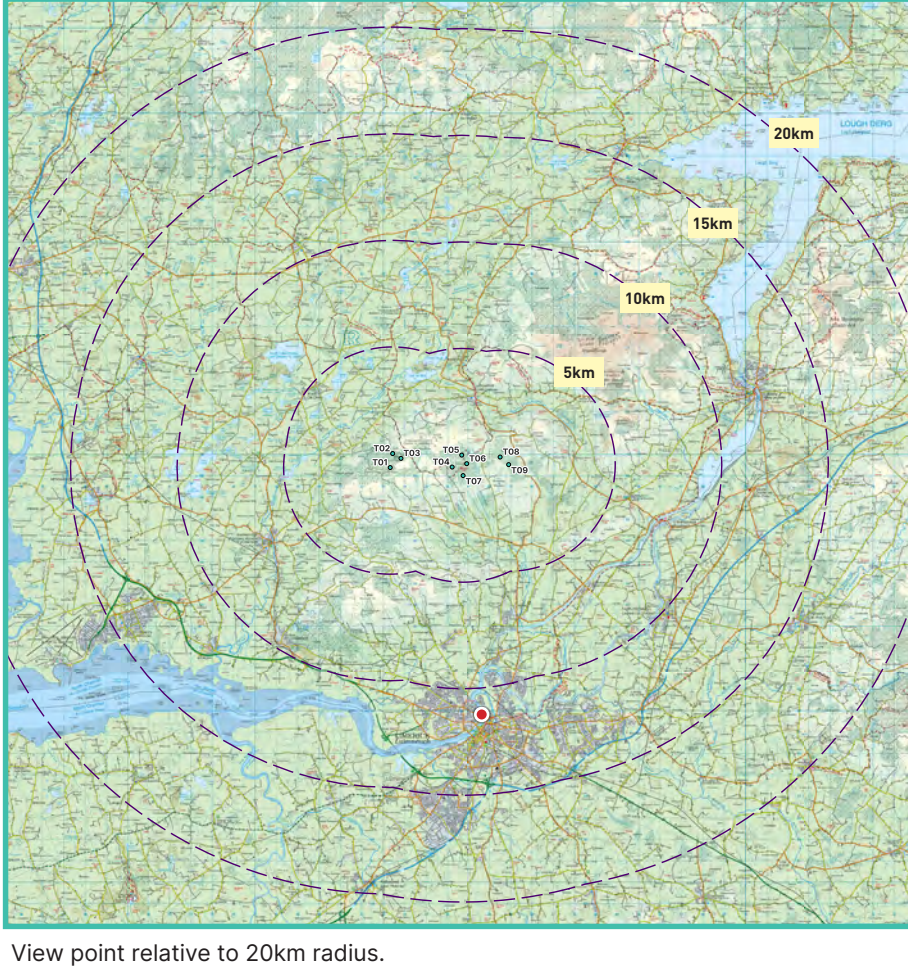




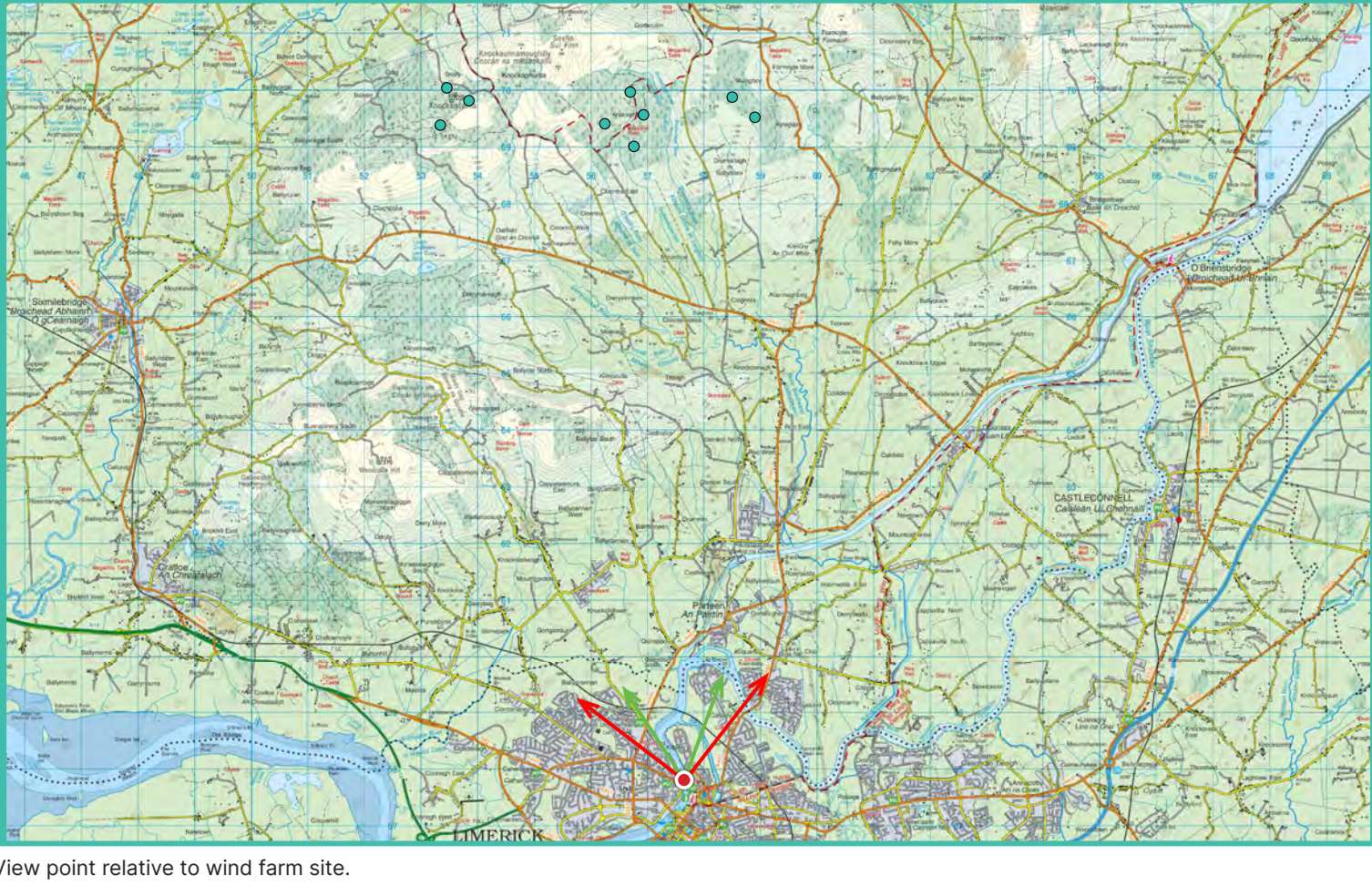
Photomontage 6

View from Thomond Bridge in Limerick City. This viewpoint is located approximately 11.2km south of the nearest proposed turbine (T7).

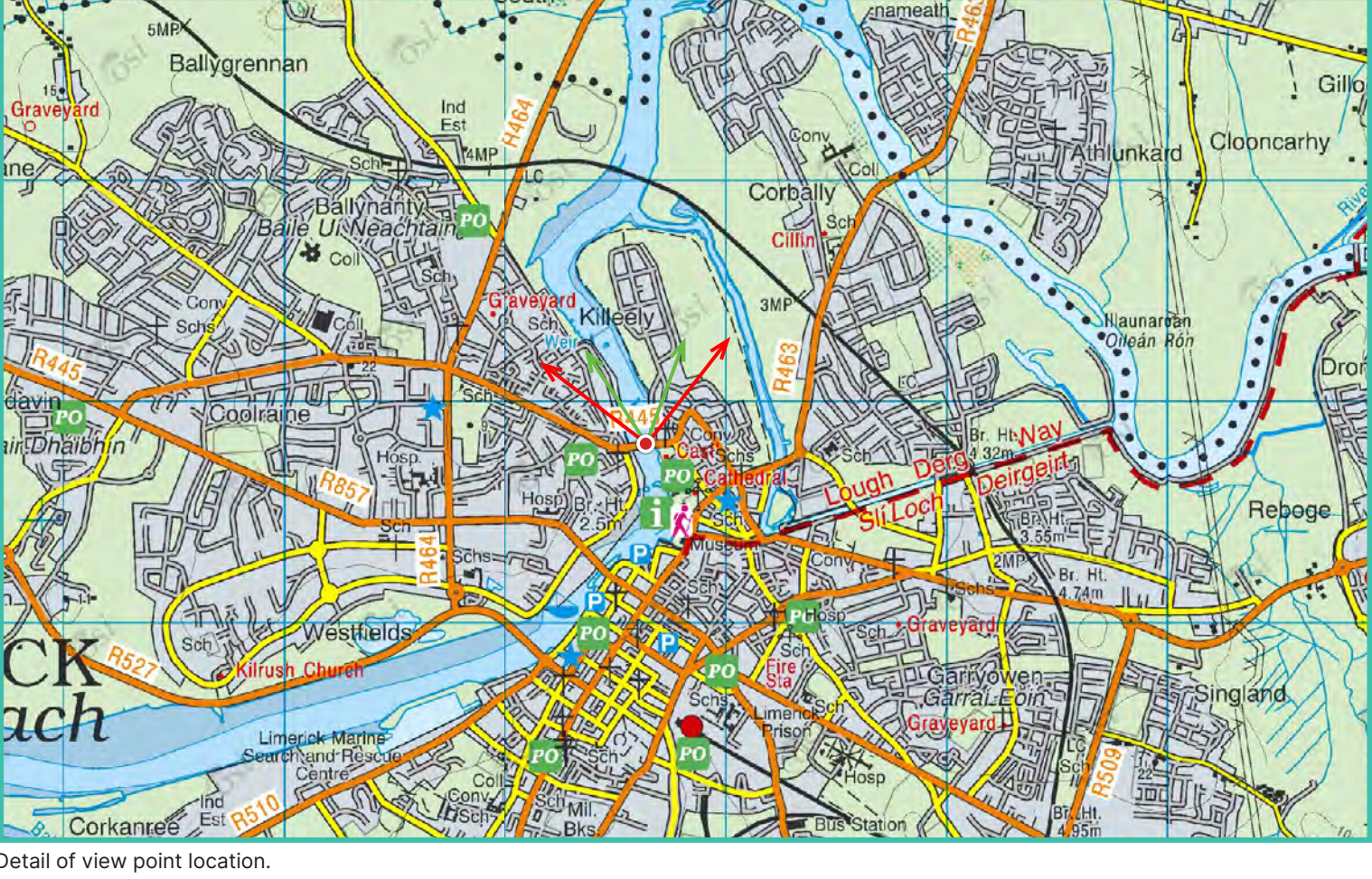
View point grid reference	E 557598    N 657853
Date of image taken	25/09/2023
Time of image taken	10:26
View point elevation	1m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	352°
Horizontal extent of proposed turbines	27°
Distance to nearest proposed turbine	11.2km (T7)
Number of proposed turbines visible	5/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.



Detail of view point location.

Map Legend

Area shown in 90° view Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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



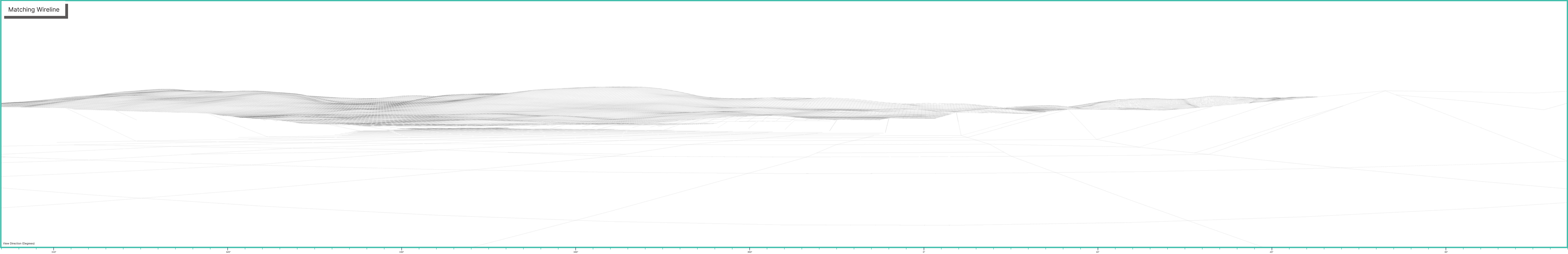
53.5° View Extent



Existing View at 90°



Matching Wireline

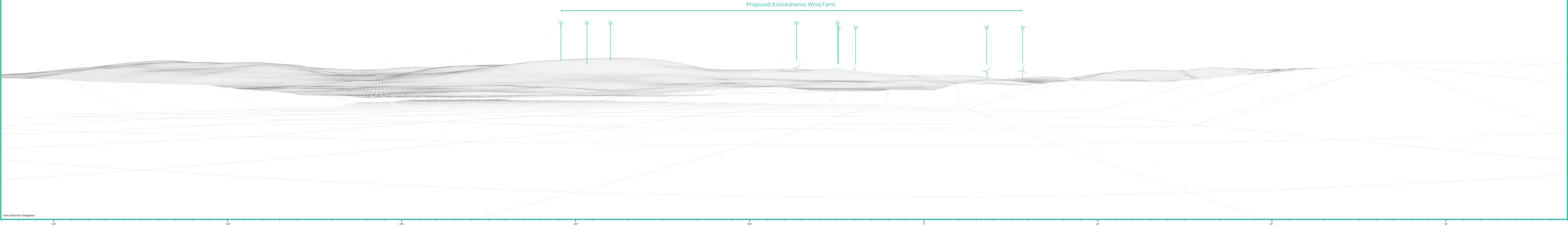




Proposed Knockshanvo at 90°



Matching Wireline







0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed Knockshanvo at 53.5°

View Direction (Degrees)

330°

340°

350°

0°

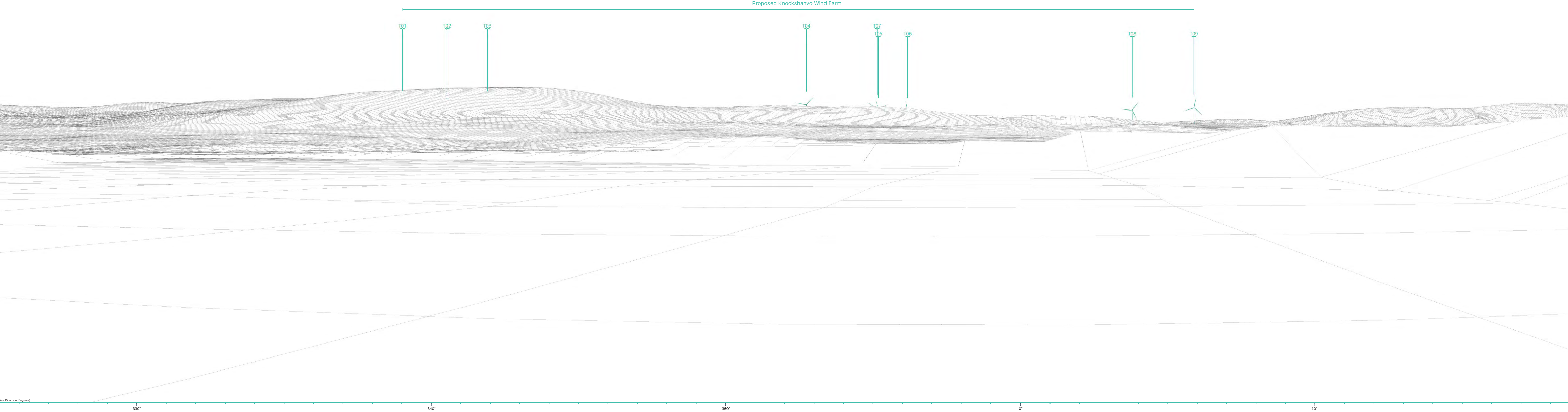
10°

18.2°

81°

0° Included Vertical Angle (18.2°)





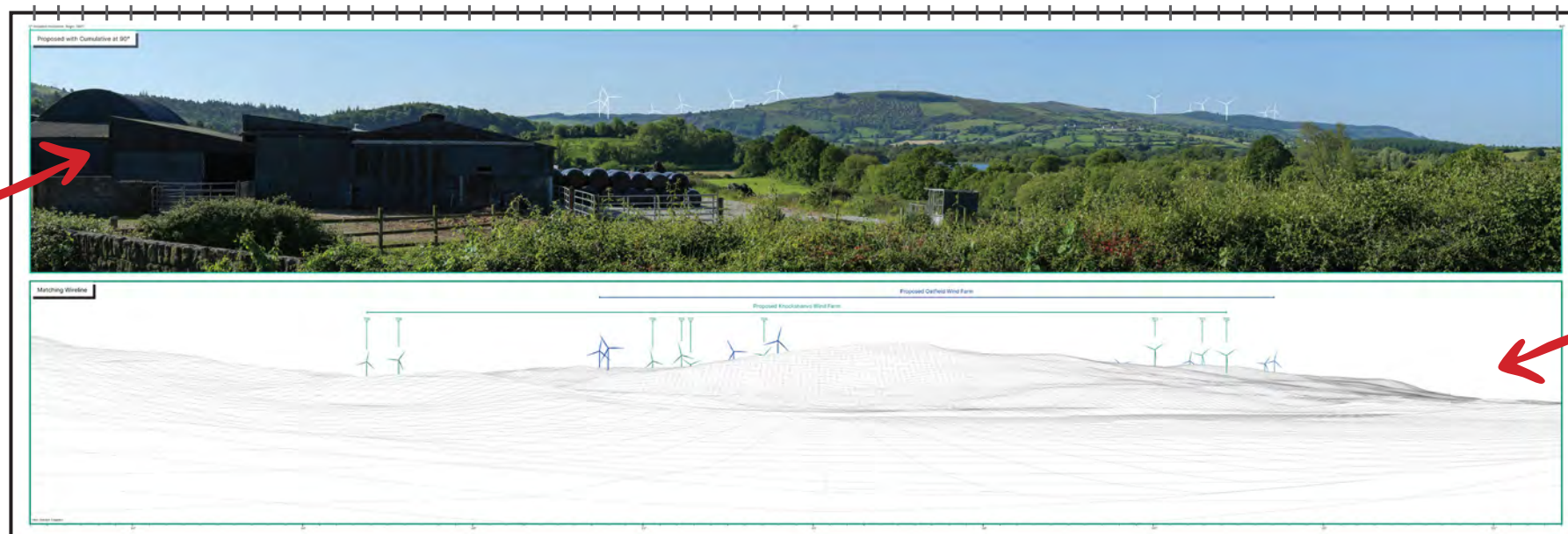


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



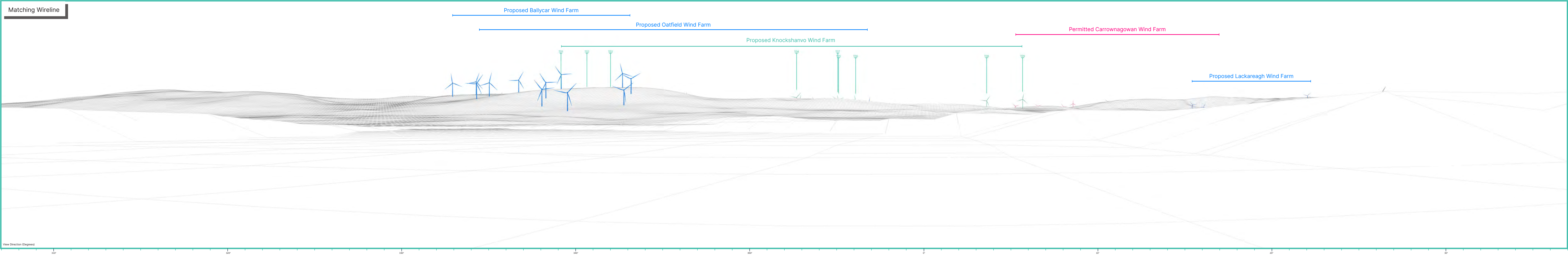
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast









0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed with Cumulative at 53.5°

View Direction (Degrees)

330°

340°

350°

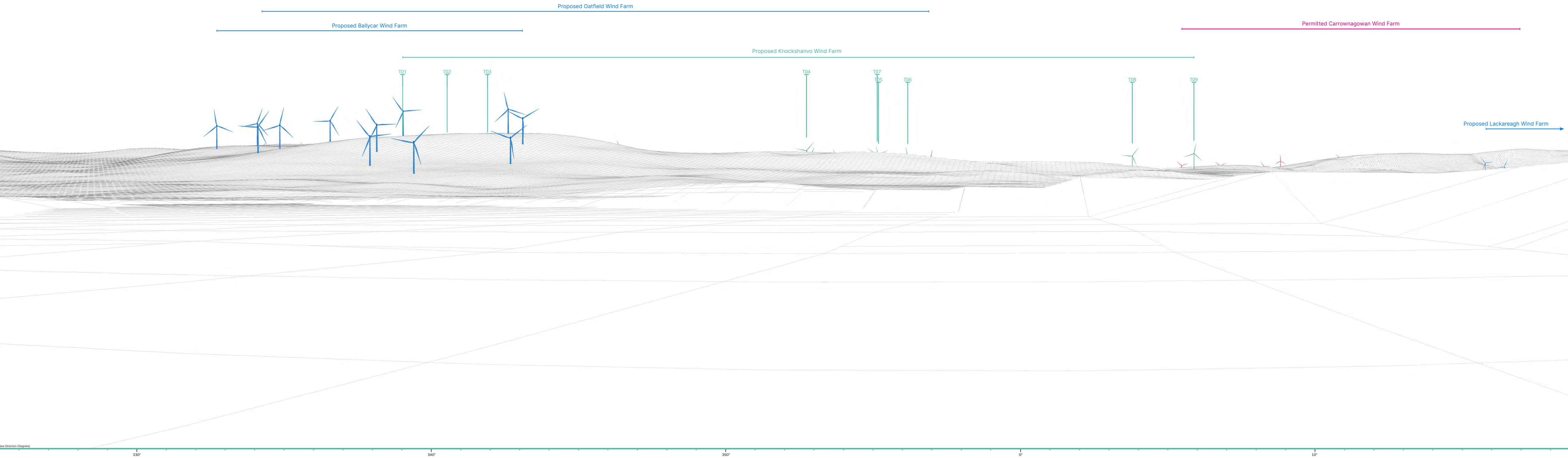
0°

10°

81°

18.2°







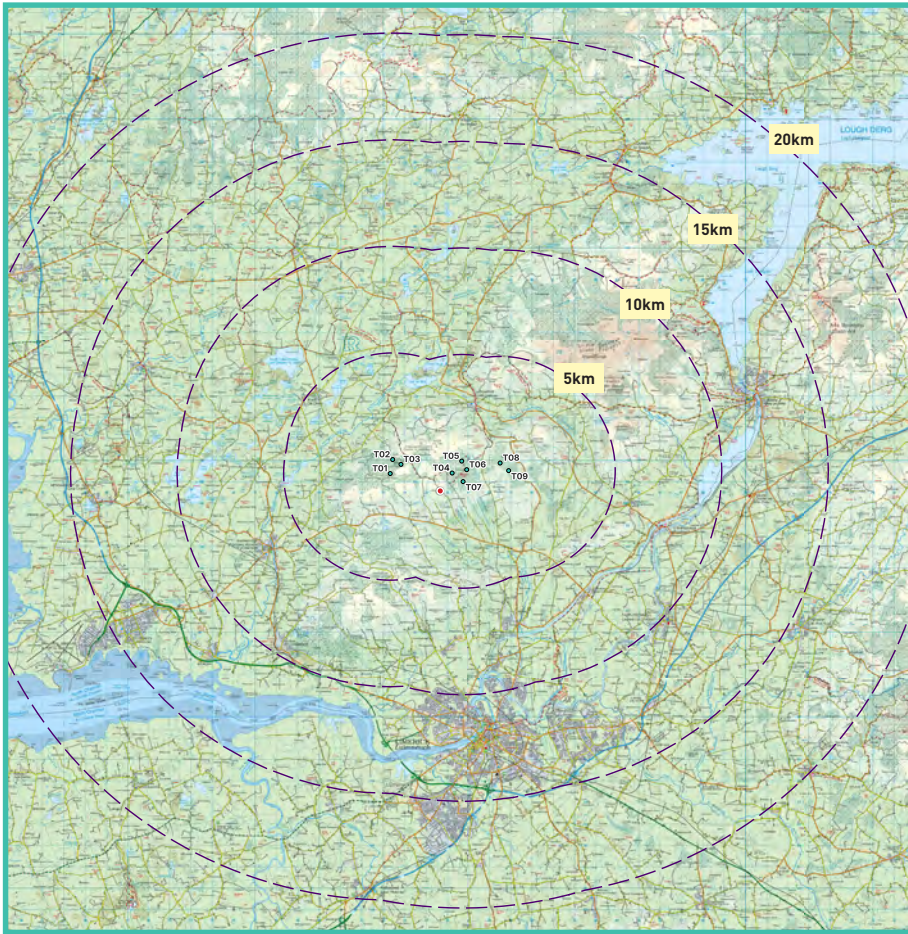




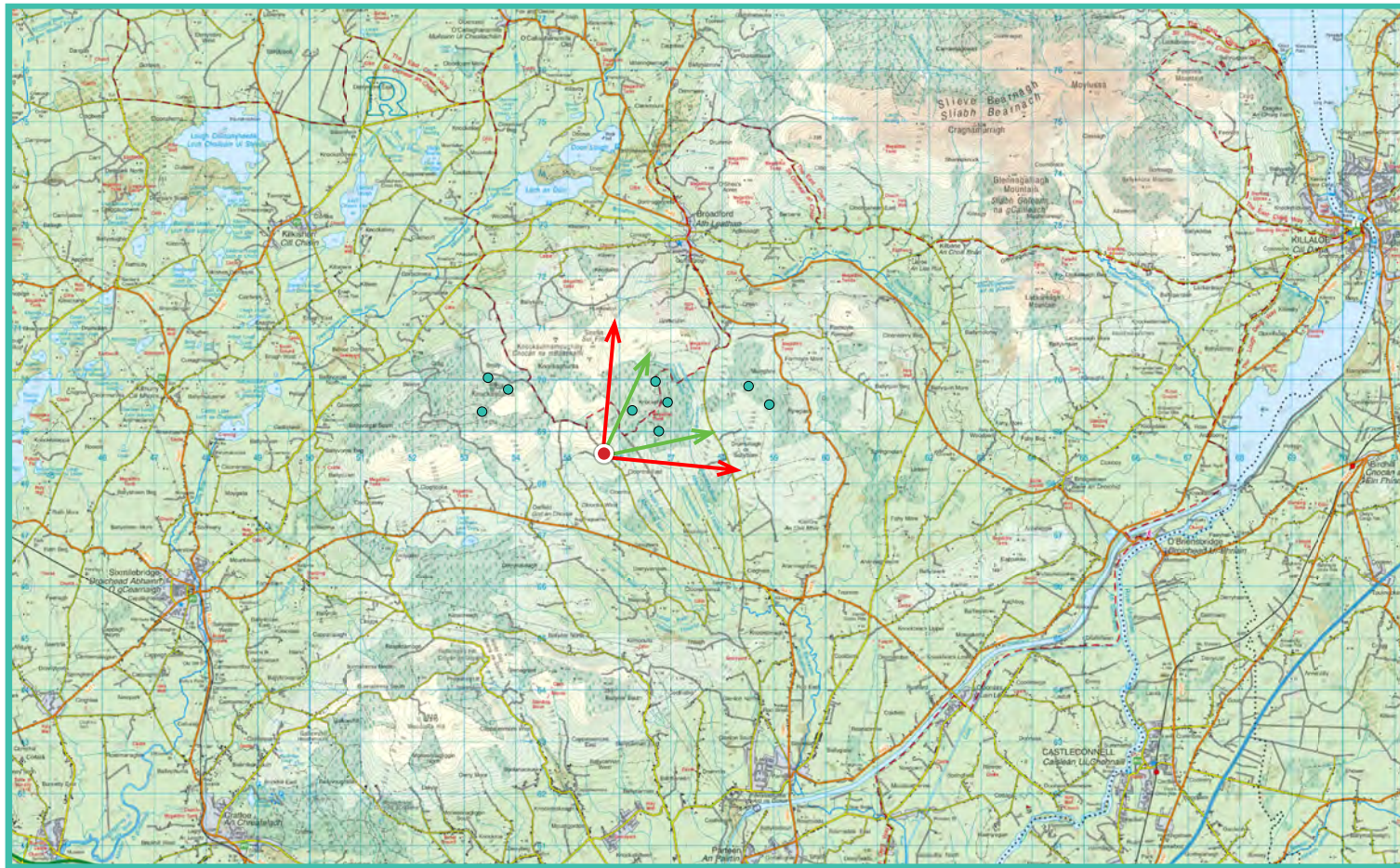
### Photomontage 7

View from a local road in the townland of Cloontra. This viewpoint is located approximately 975m southwest of the nearest proposed turbine (T4).

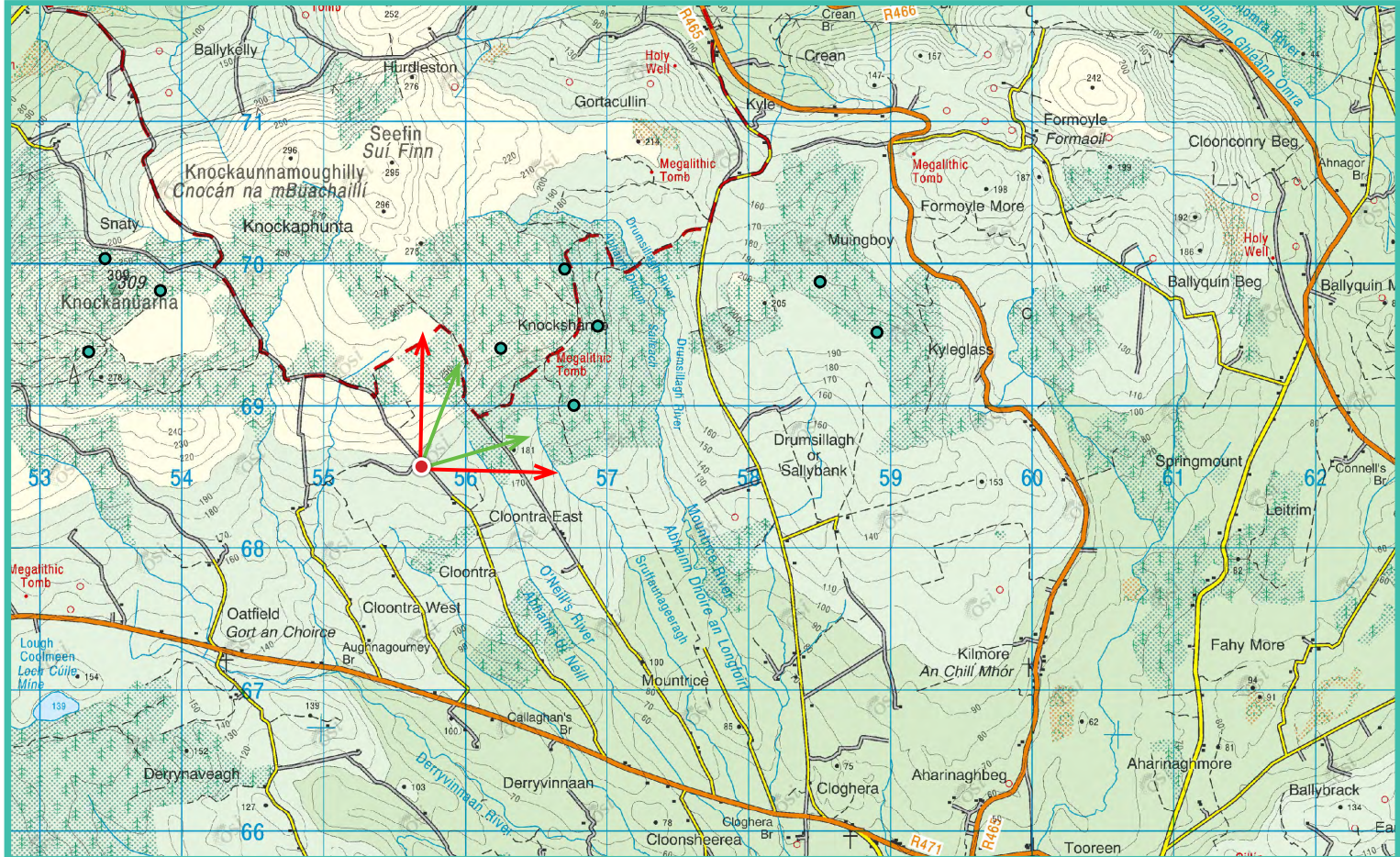
View point grid reference	E 555678 N 668627
Date of image taken	28/08/2023
Time of image taken	11:52
View point elevation	191m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	45°
Horizontal extent of proposed turbines	143°
Distance to nearest proposed turbine	975m (T4)
Number of proposed turbines visible	6/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.



Detail of view point location.

90° View Extent




53.5° View Extent

#### Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

#### Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

Tel: (091) 73 56 11  
E-mail: [info@mkoireland.ie](mailto:info@mkoireland.ie)  
Website: [www.mkoireland.ie](http://www.mkoireland.ie)

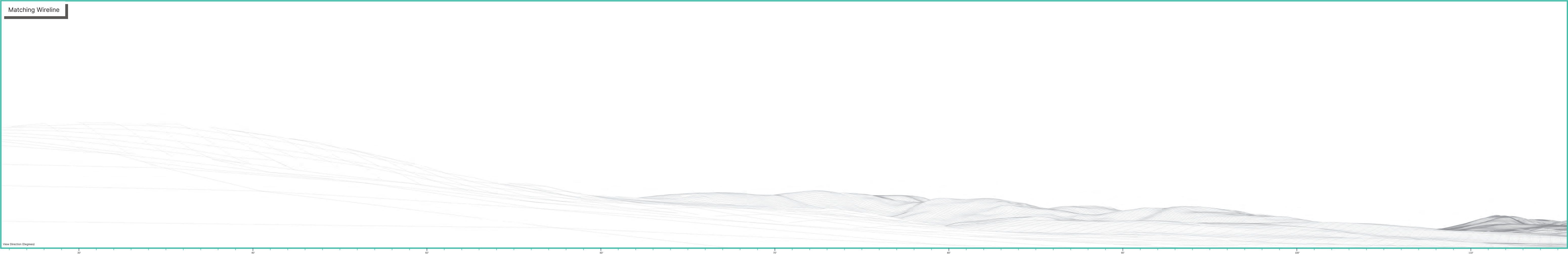




Existing View at 90°

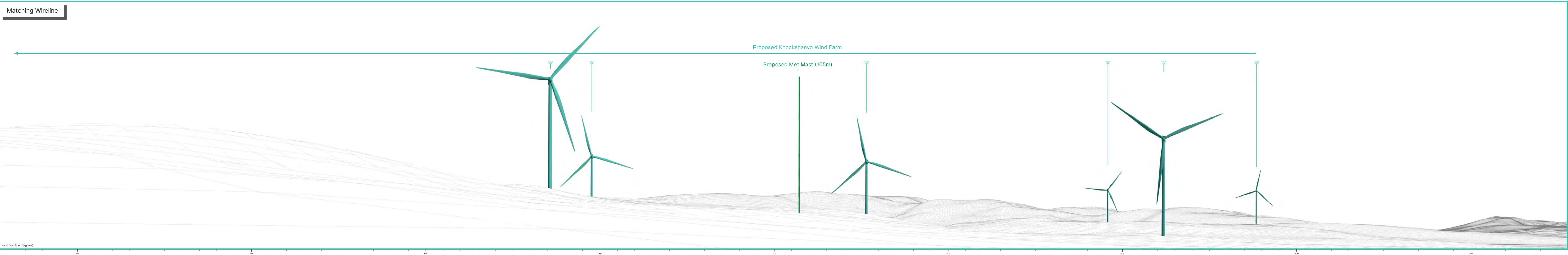


Matching Wireline





### Matching Wireline

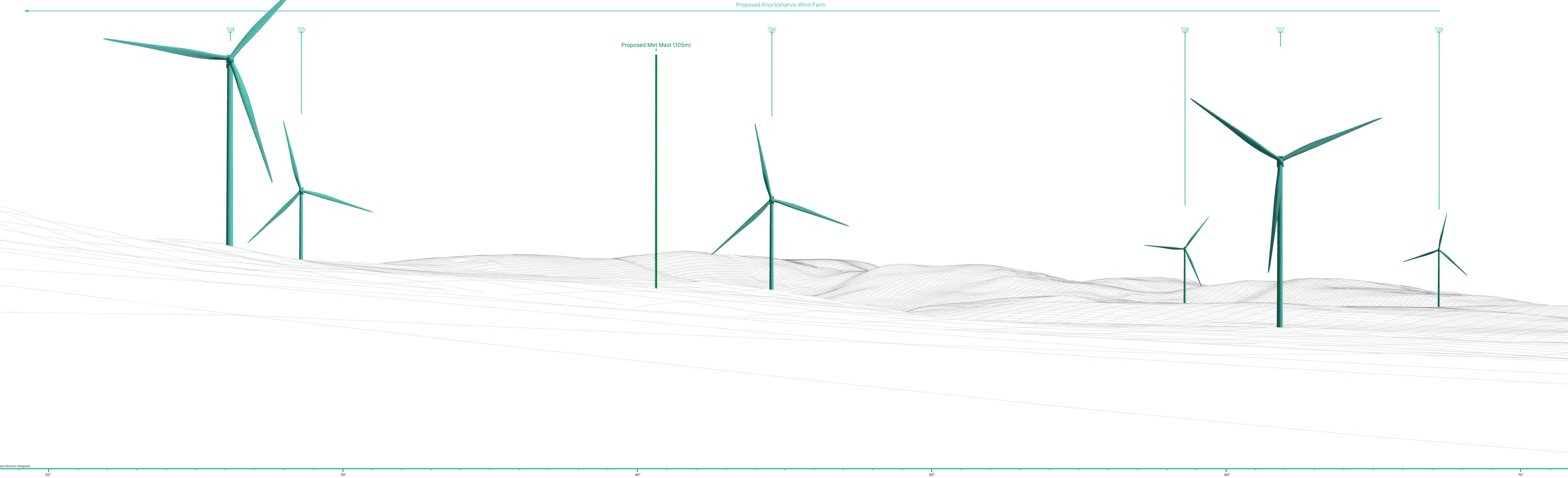




Proposed Knockshanvo at 53.5°









# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

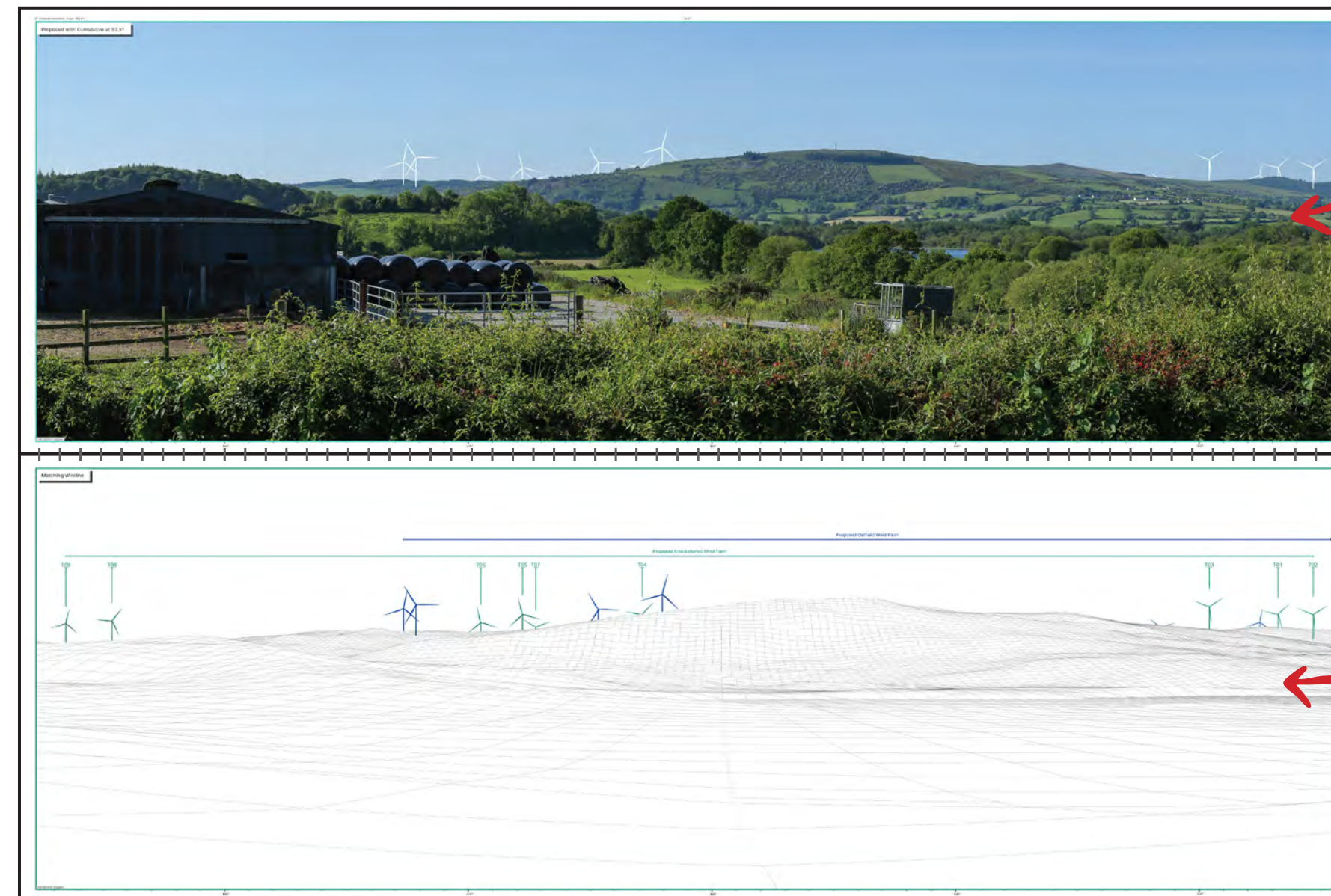
This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km

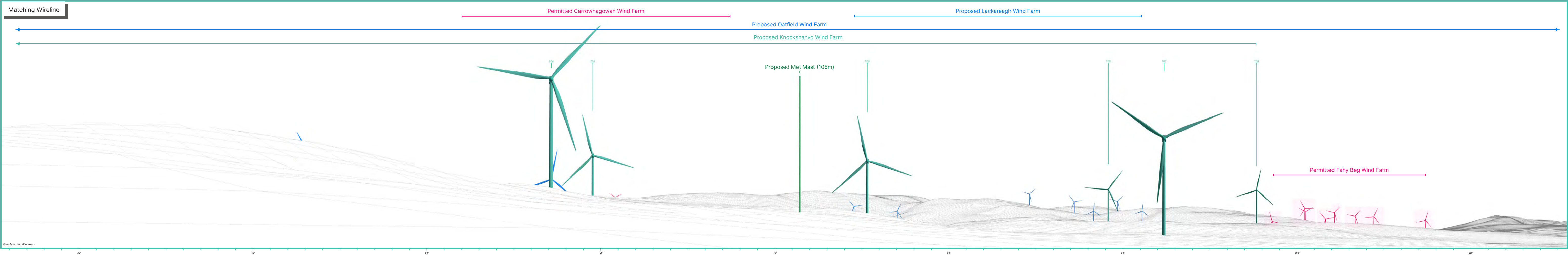
This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.



This 53.5° matching wireline shows the Proposed Development including cumulative within 20km







Proposed with Cumulative at 53.5°





Permitted Carrownagowan Wind Farm

Proposed Knockshanvo Wind Farm

Proposed Lackareagh Wind Farm

Permitted Fahy Beg Wind Farm

T04

T05

T06

T08

T07

T09

Proposed Met Mast (105m)



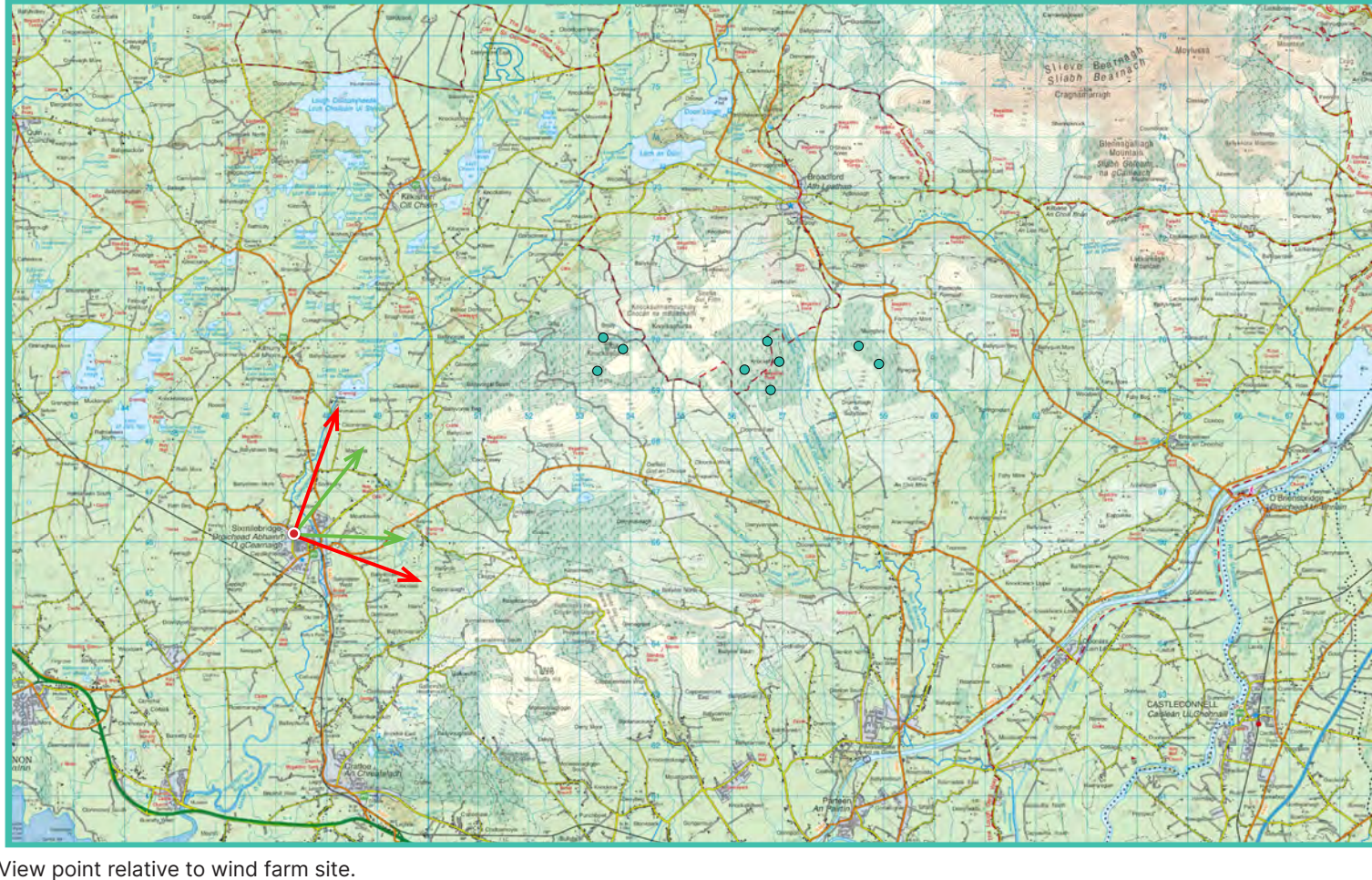
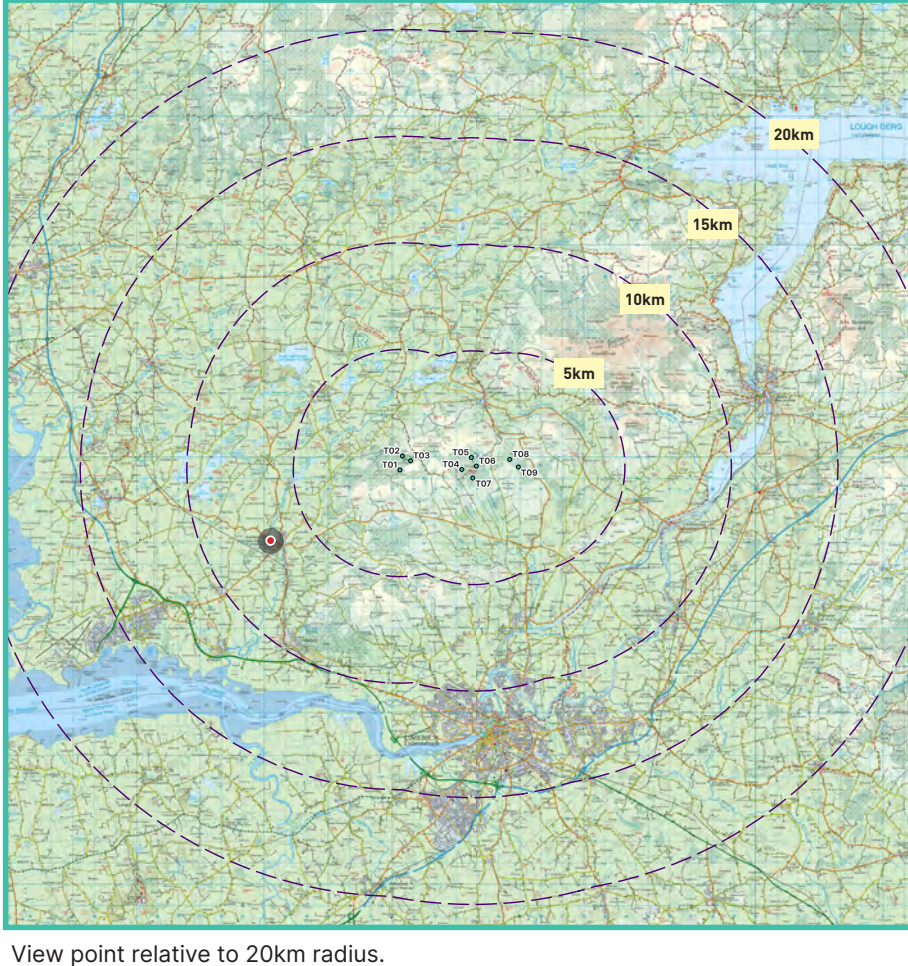




Photomontage 8

View from the settlement of Sixmilebridge in the townland of Sixmilebridge. This viewpoint is located approximately 6.8km southwest of the nearest proposed turbine (T1).

View point grid reference	E 547318    N 666197
Date of image taken	30/05/2023
Time of image taken	14:37
View point elevation	25m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	65°
Horizontal extent of proposed turbines	16°
Distance to nearest proposed turbine	6.8km (T1)
Number of proposed turbines visible	3/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



Map Legend

Area shown in 90° view

Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

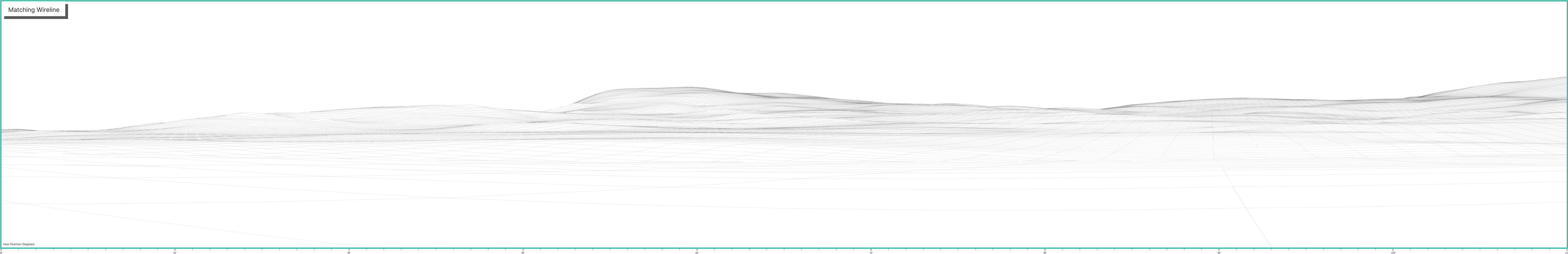
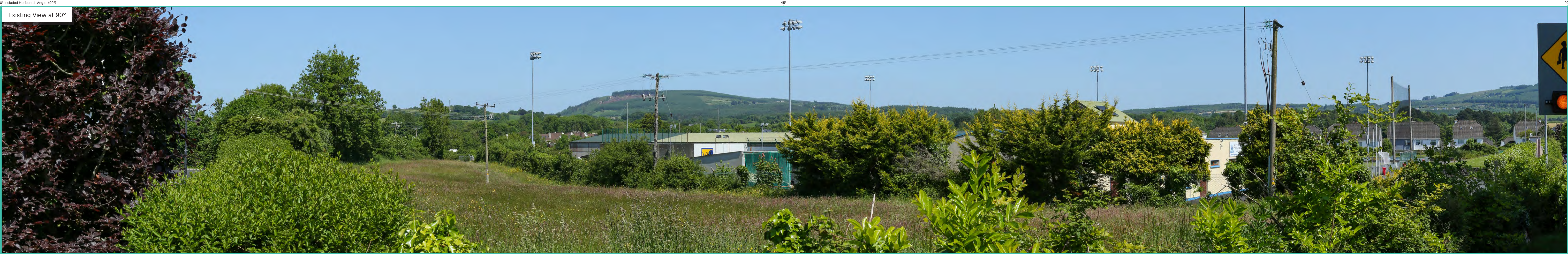
MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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

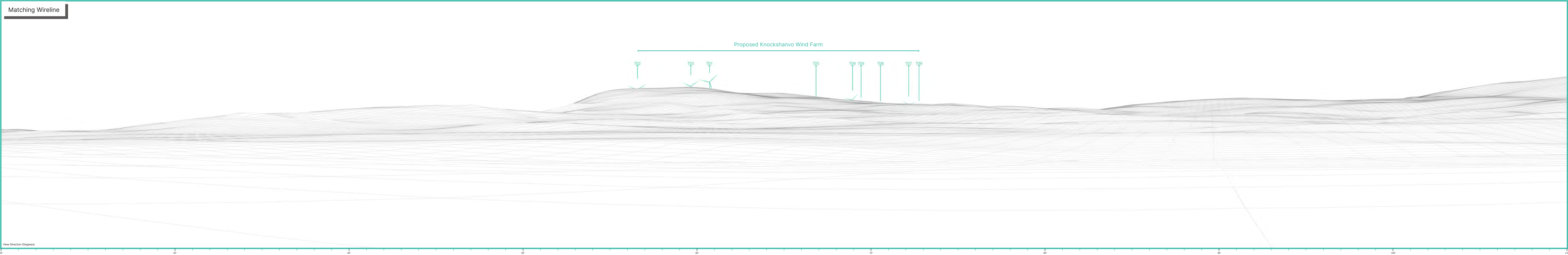
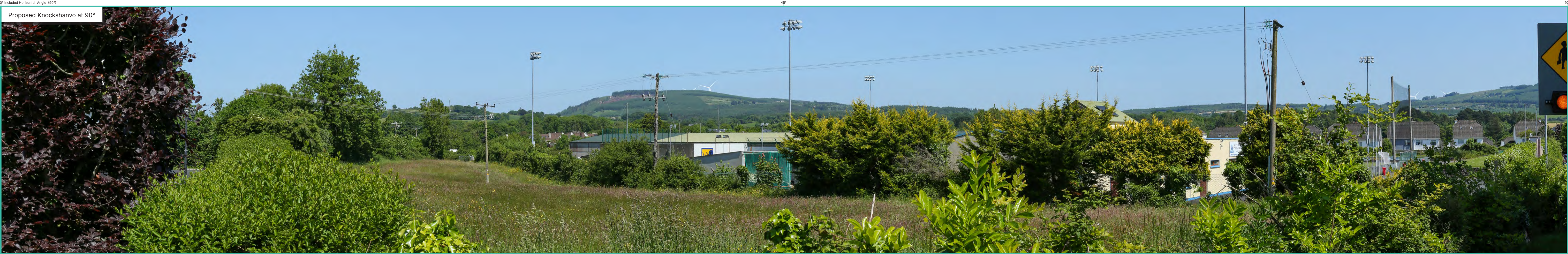
MKO















0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed Knockshanvo at 53.5°



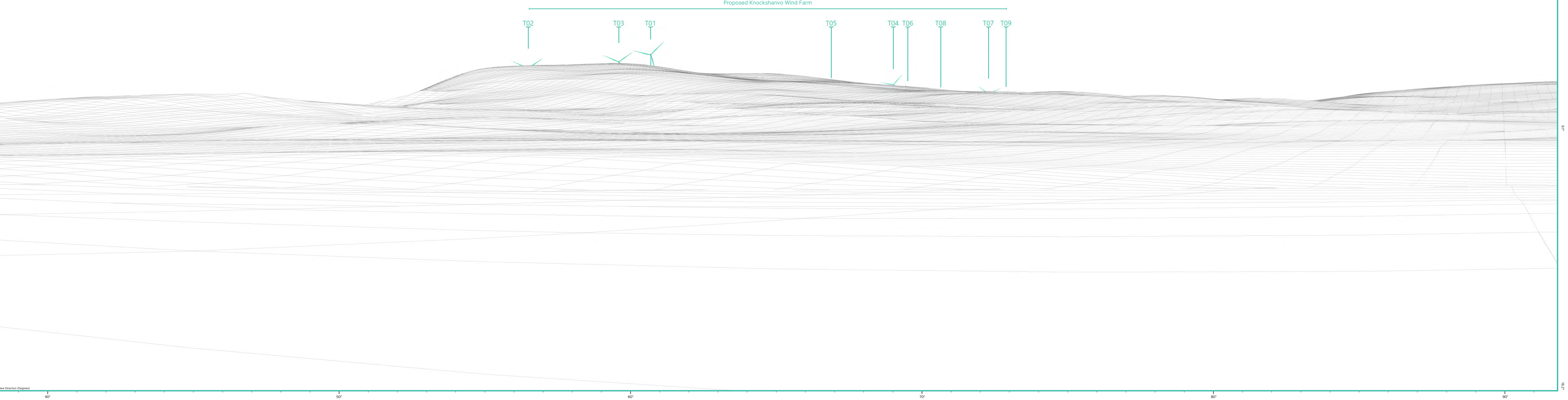
8.1°

View Direction (Degrees)

40° 50° 60° 70° 80° 90°

18.2°





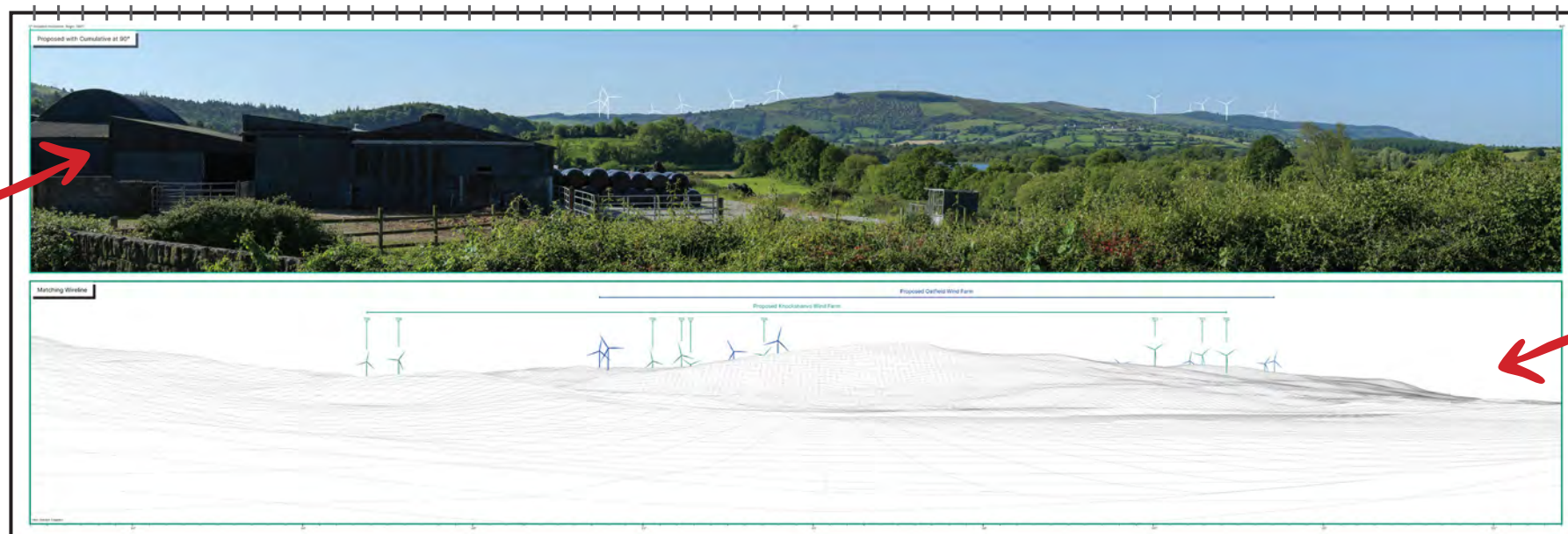


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



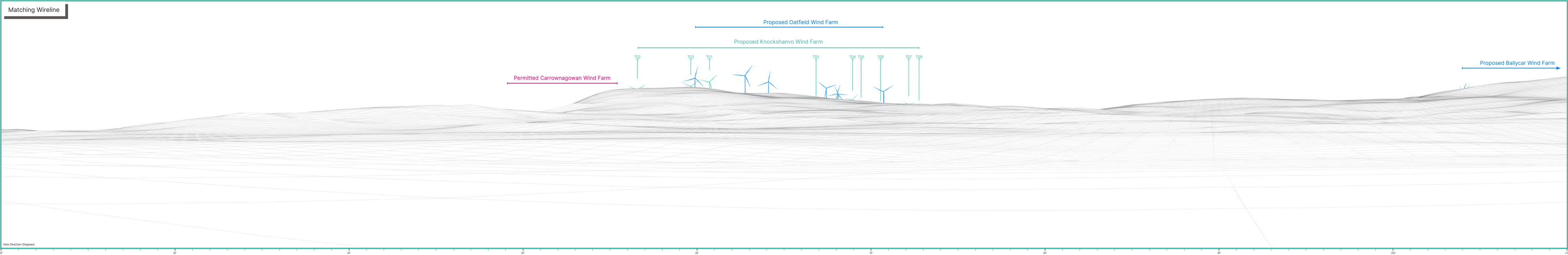
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast









0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed with Cumulative at 53.5°



0° Included Vertical Angle (18.2°)

View Direction (Degrees)

40°

50°

60°

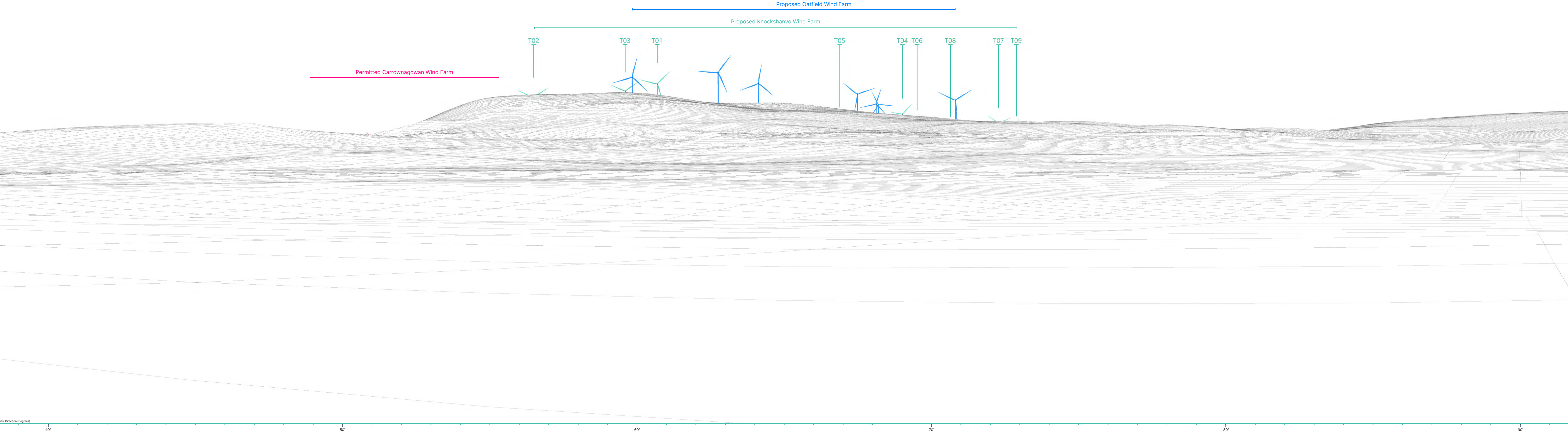
70°

80°

90°

18.2°







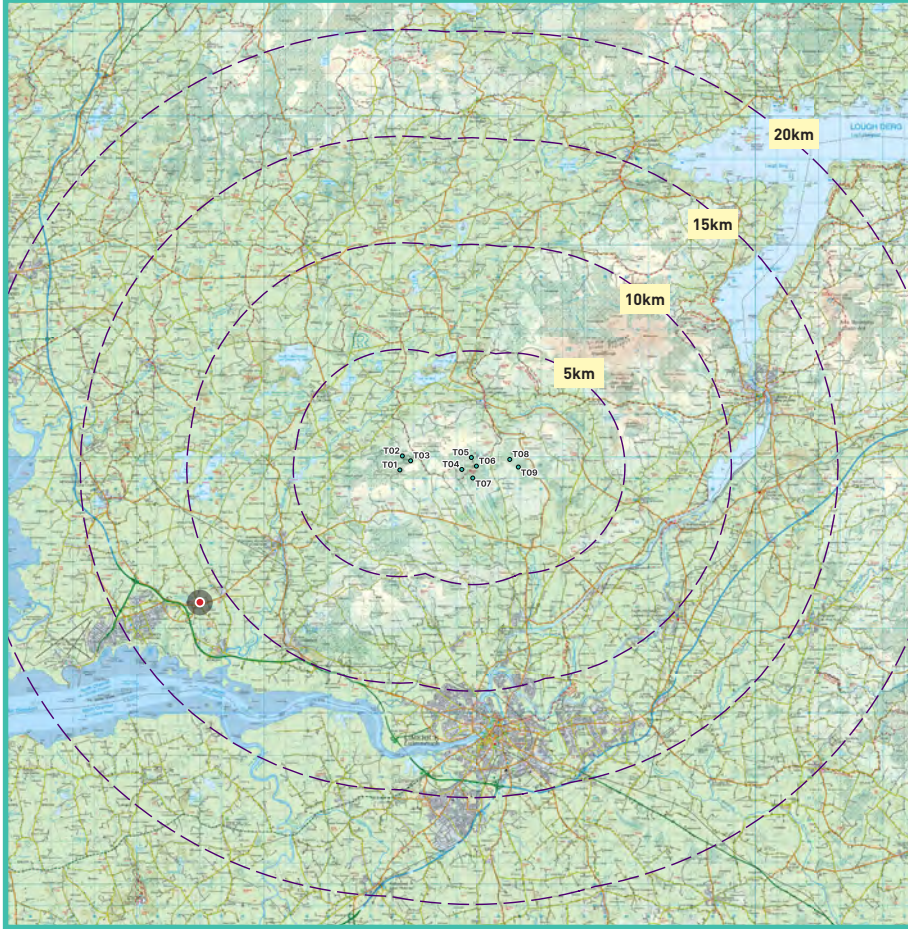




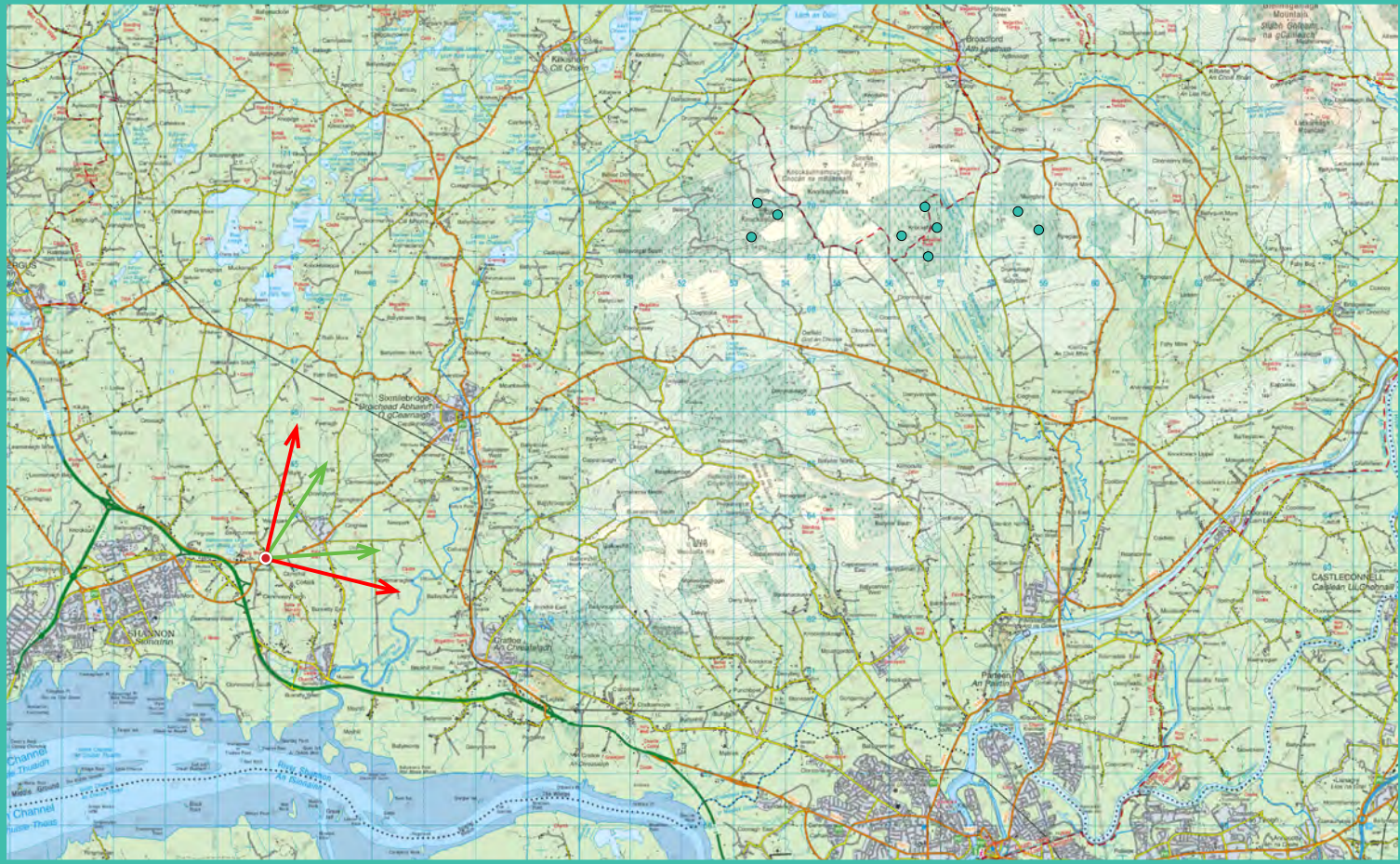
Photomontage 9

View from R471 regional road in the townland of Clonmoney North. This viewpoint is located approximately 11.3km southwest from the nearest proposed turbine (T1).

View point grid reference	E 543915   N 663219
Date of image taken	30/05/2023
Time of image taken	14:52
View point elevation	37m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	59°
Horizontal extent of proposed turbines	13°
Distance to nearest proposed turbine	11.3km (T1)
Number of proposed turbines visible	9/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.



Detail of view point location.

Map Legend

Area shown in 90° view    Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by  
MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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



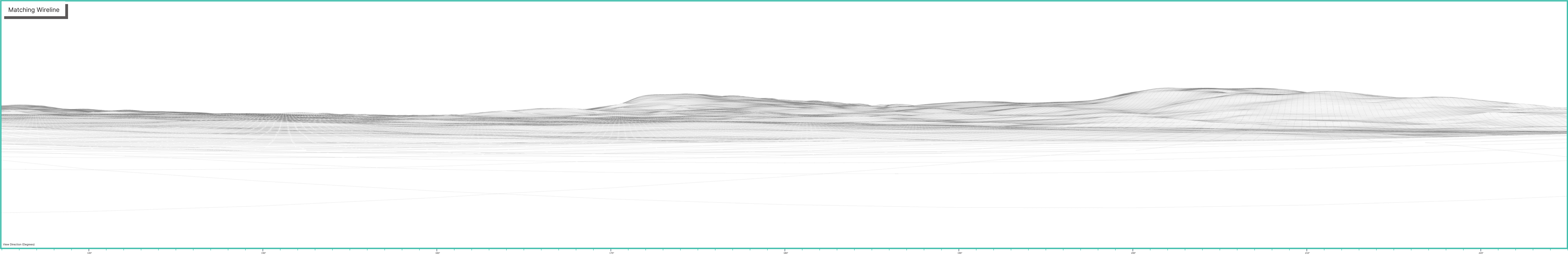
53.5° View Extent



Existing View at 90°



Matching Wireline

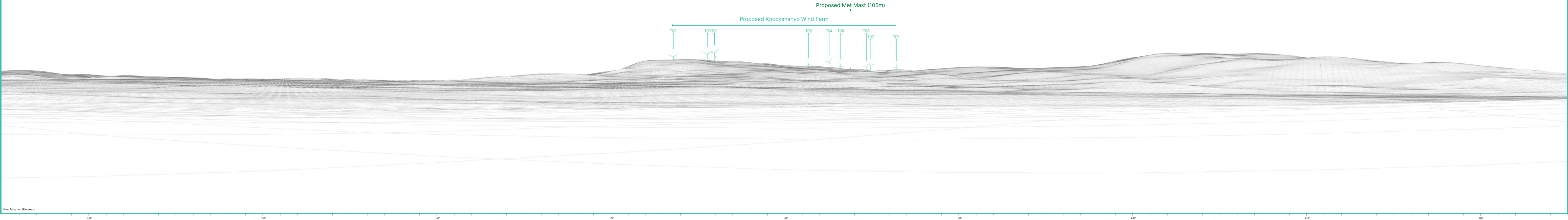




Proposed Knockshanvo at 90°



Matching Wireline

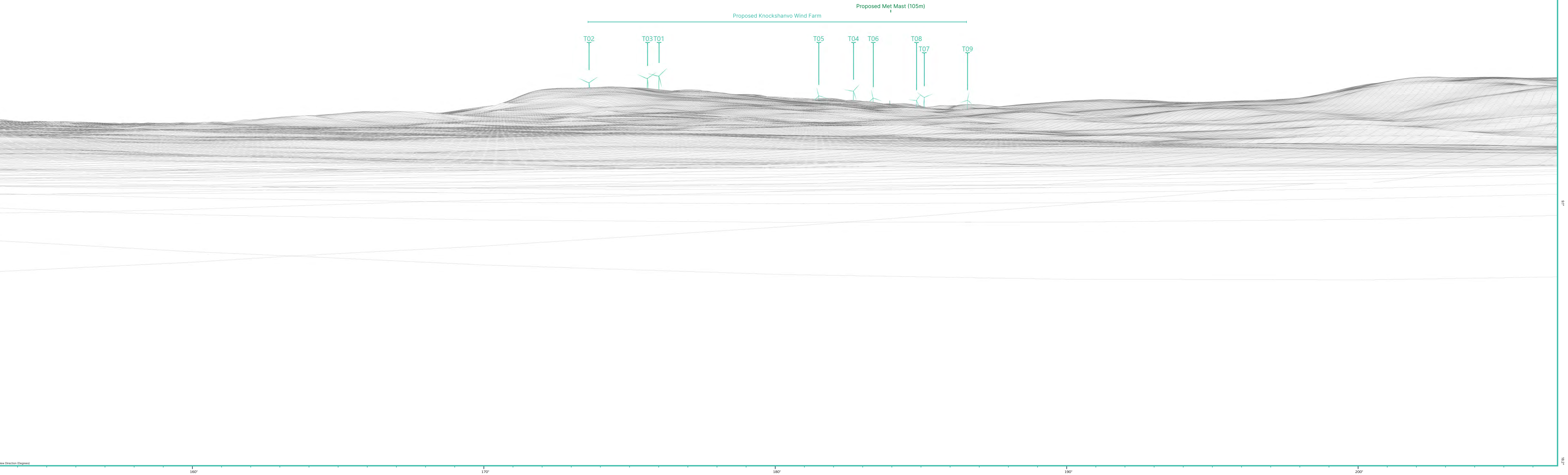




Proposed Knockshanvo at 53.5°







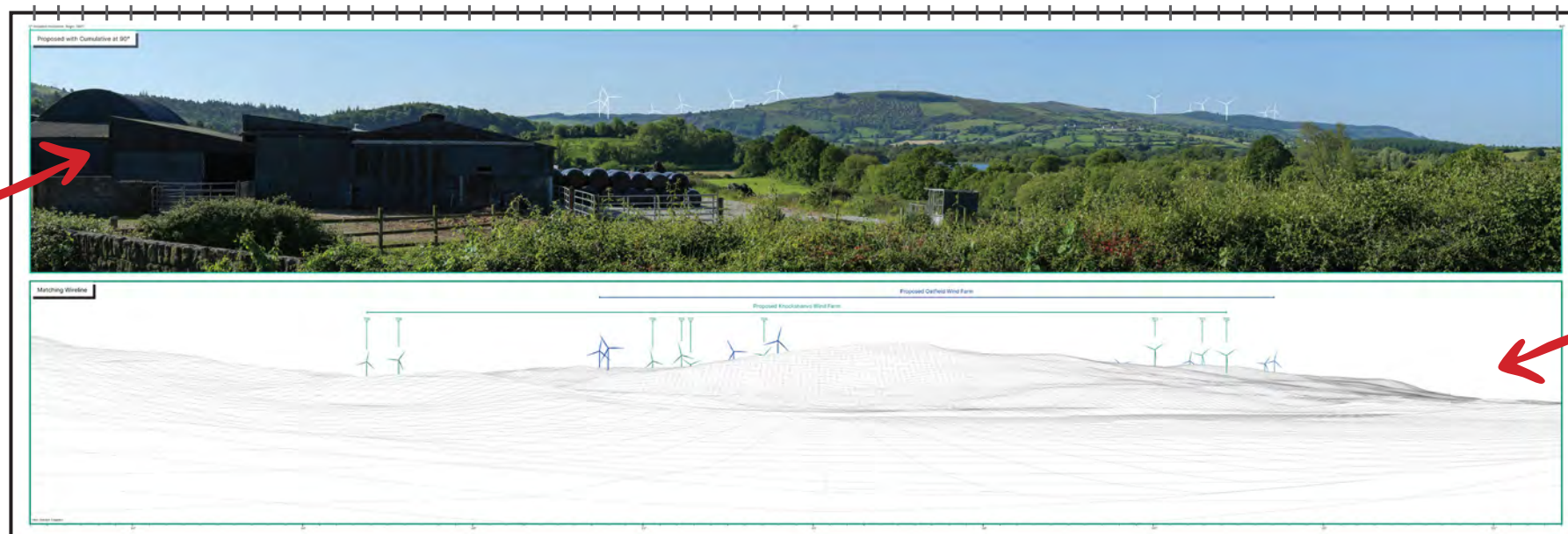


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

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This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...

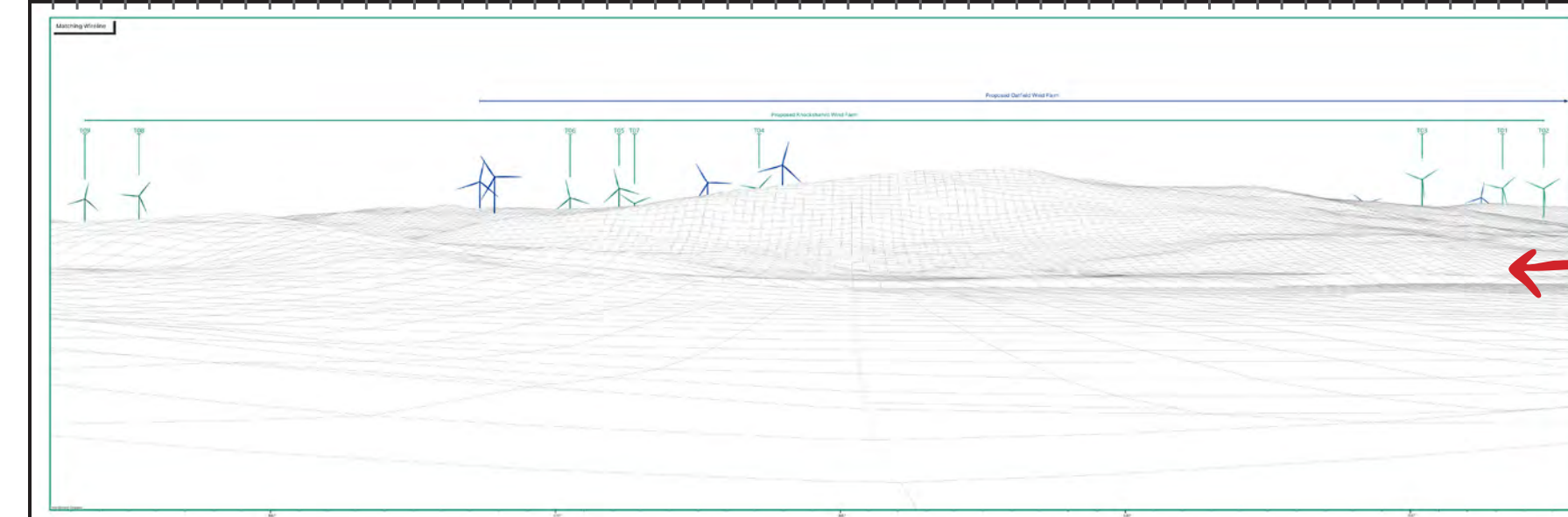


This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.



This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



Other Proposed Wind Farms

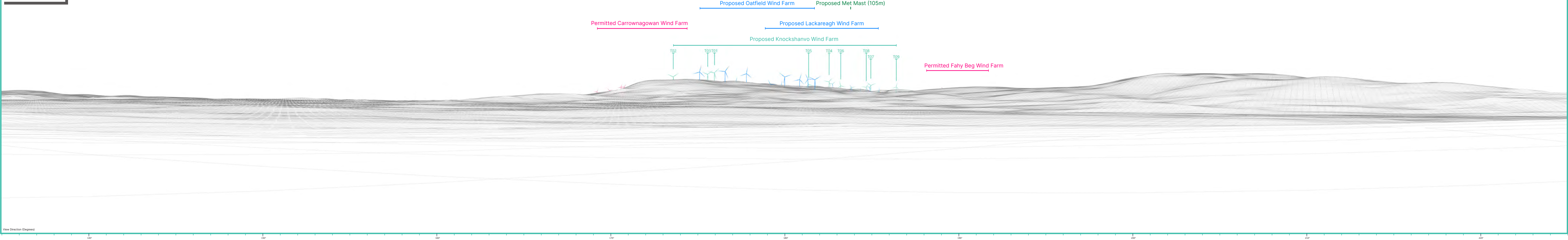
Proposed Met Mast



Proposed with Cumulative at 90°



Matching Wireline

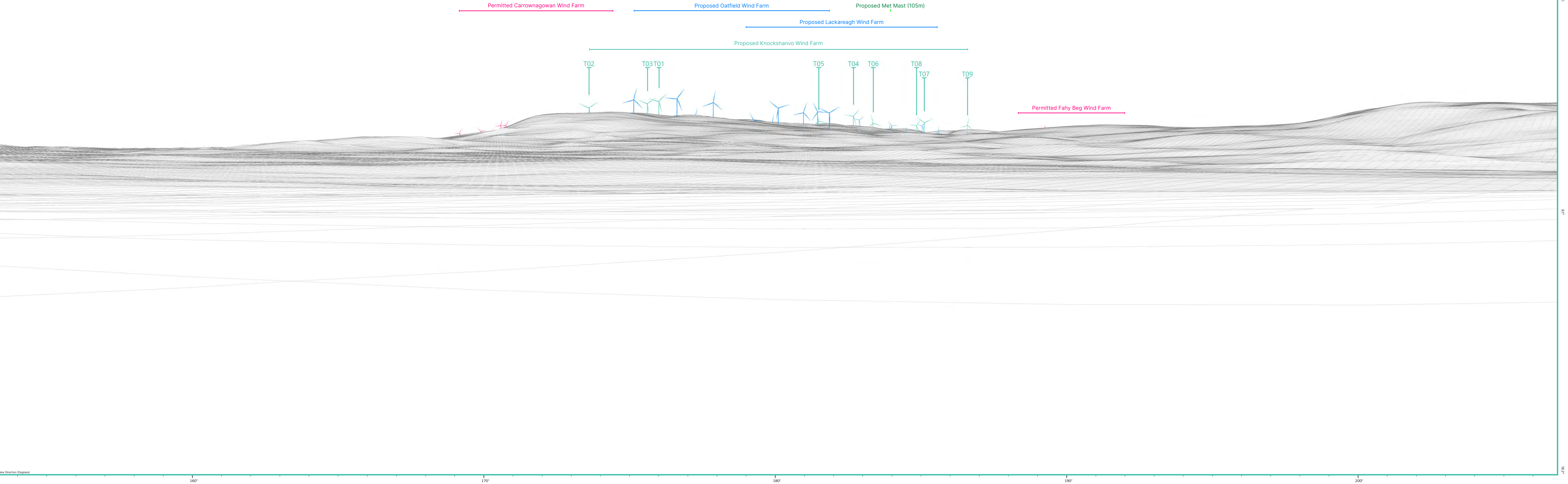




Proposed with Cumulative at 53.5°









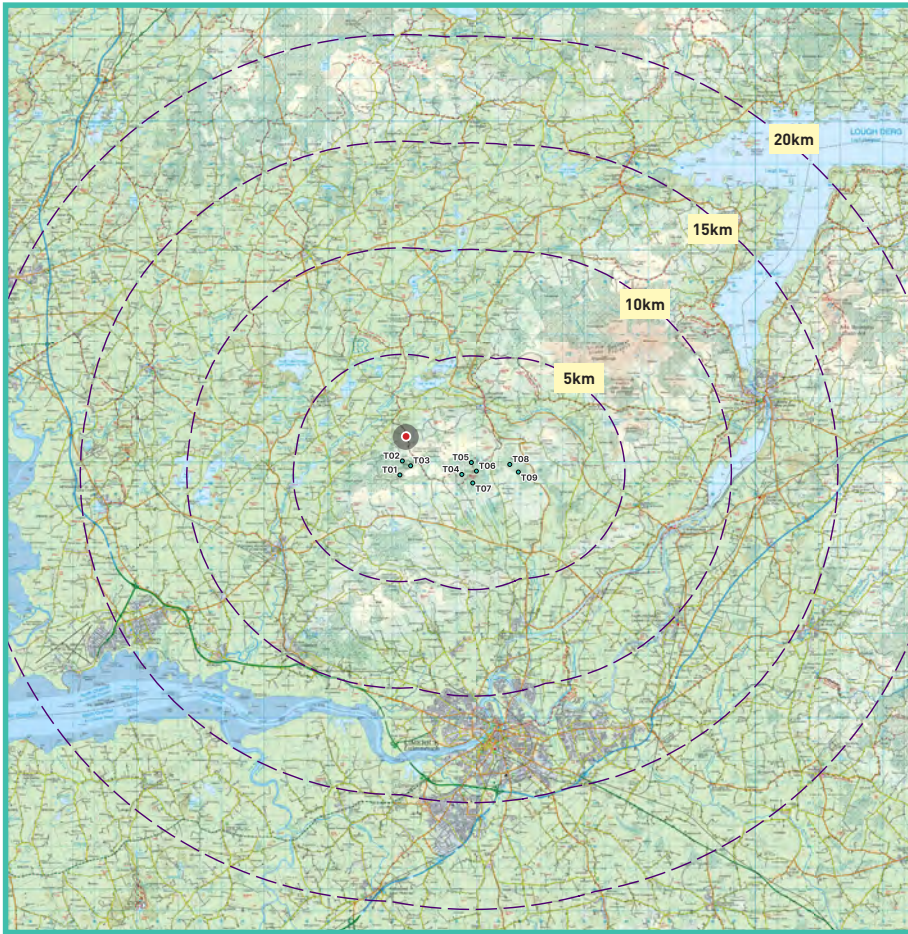




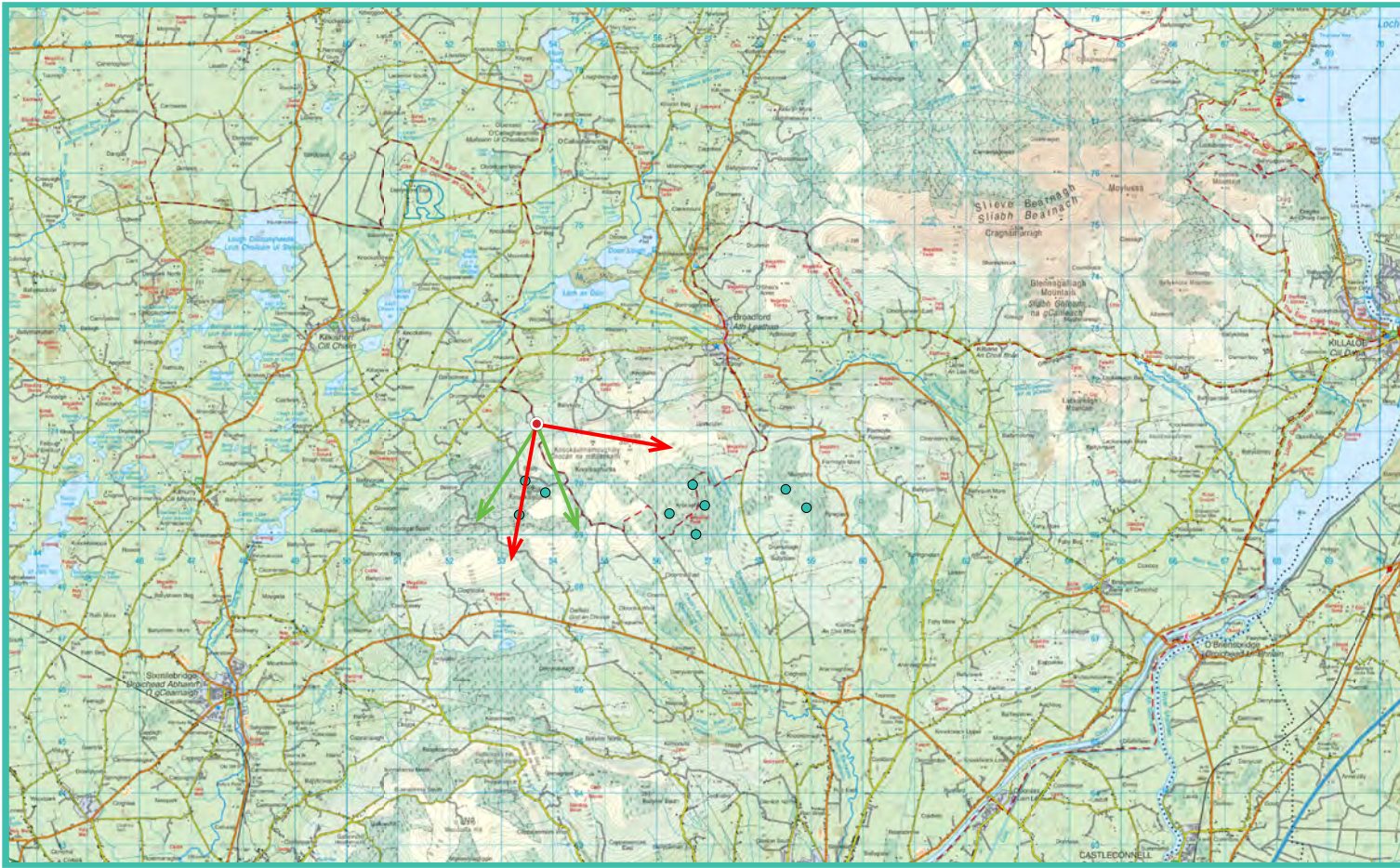
Photomontage 10

View from local road in the townland of Snaty (Cooper). This viewpoint is located approximately 1.1km north from the nearest proposed turbine (T2).

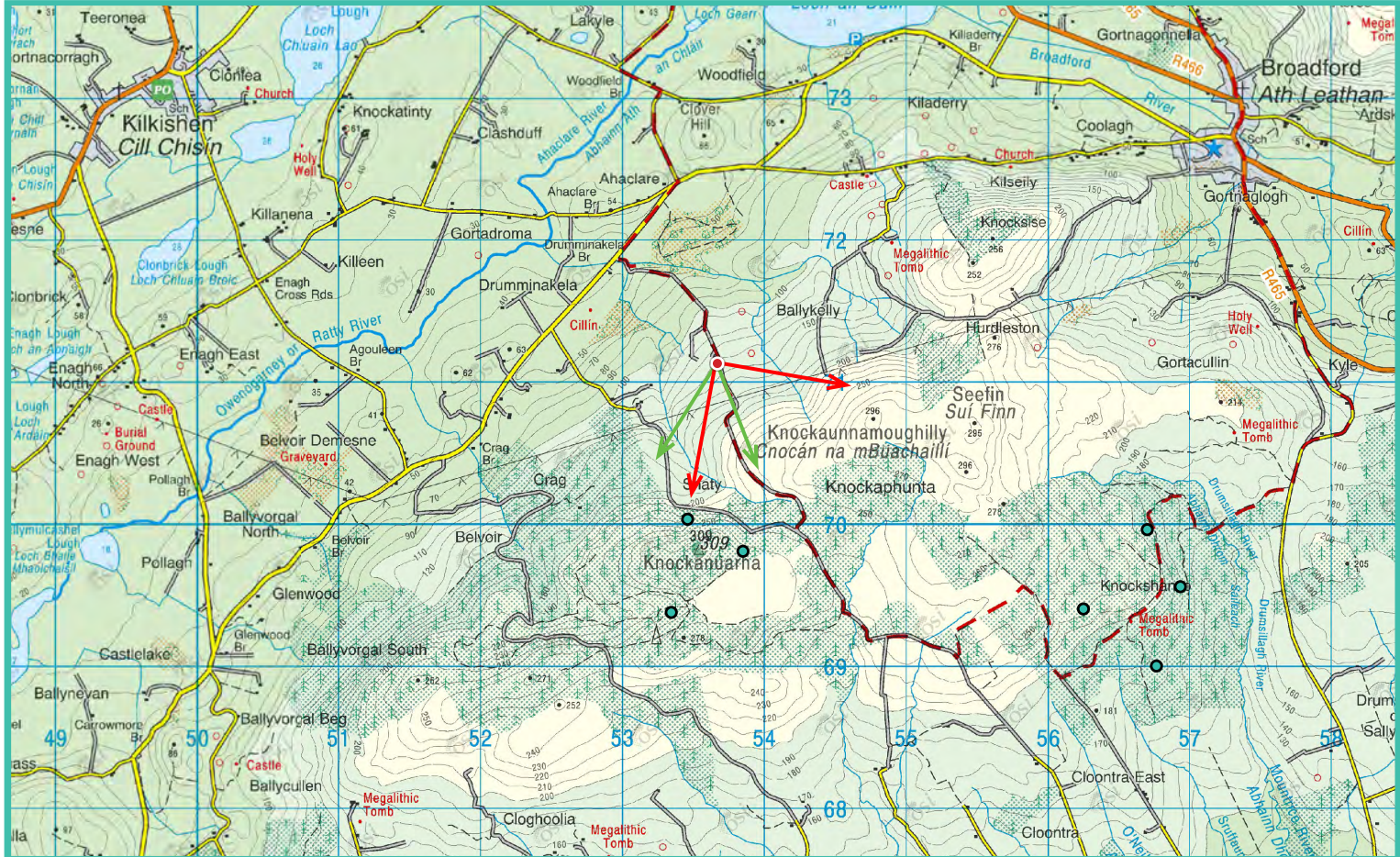
View point grid reference	E 553646 N 671189
Date of image taken	13/09/2022
Time of image taken	13:30
View point elevation	134m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	145° / 183°
Horizontal extent of proposed turbines	87°
Distance to nearest proposed turbine	1.1km (T2)
Number of proposed turbines visible	3/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.




Detail of view point location.

Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

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°

90° View Extent

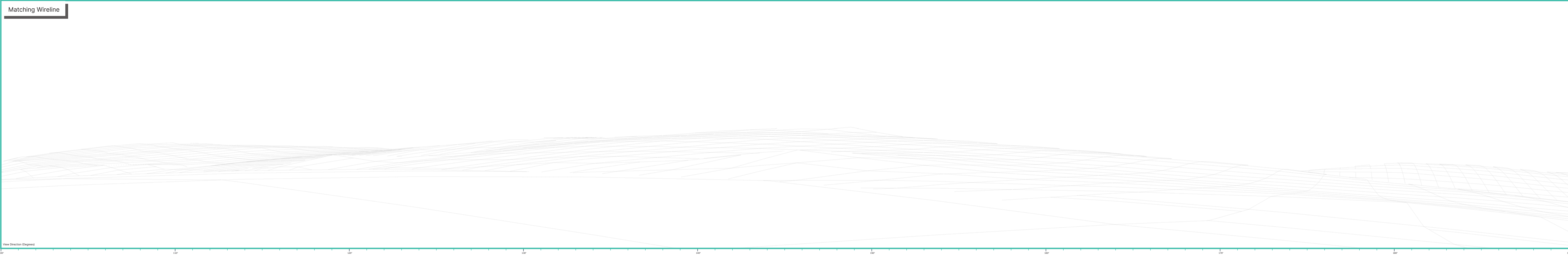
53.5° View Extent



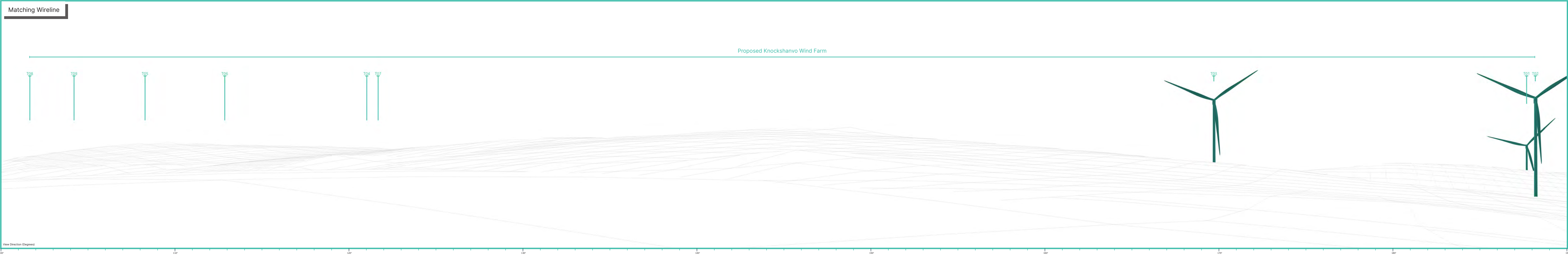
Existing View at 90°



Matching Wireline





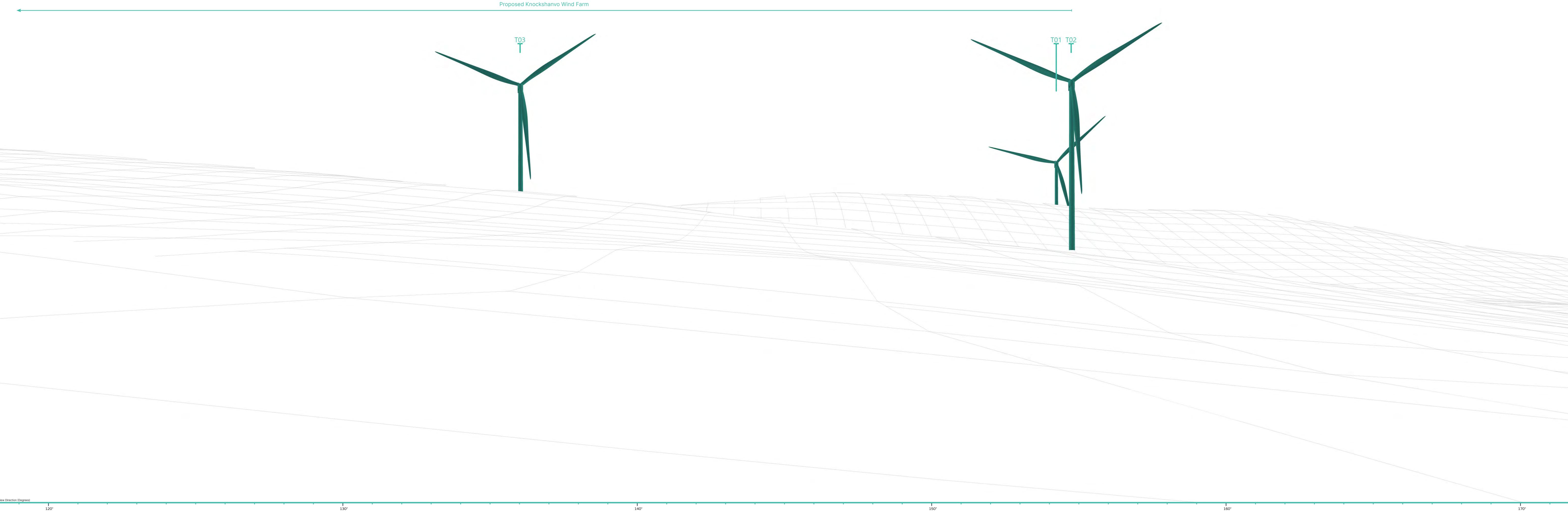






Proposed Knockshanvo at 53.5°





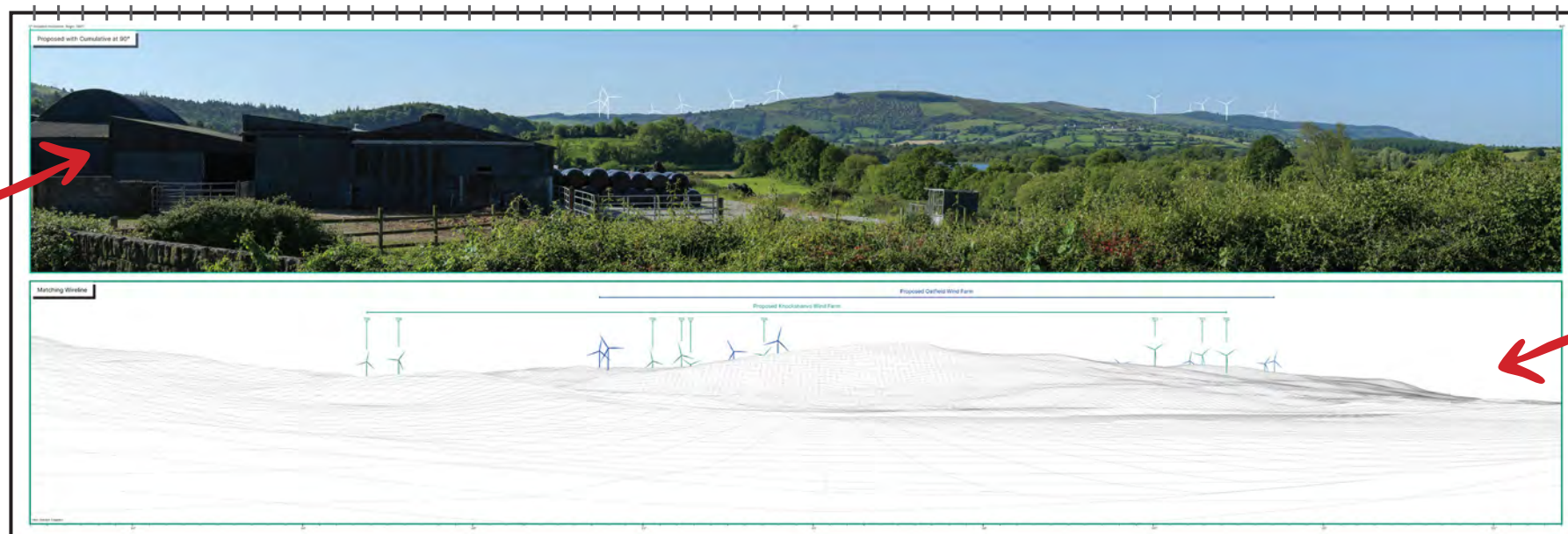


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



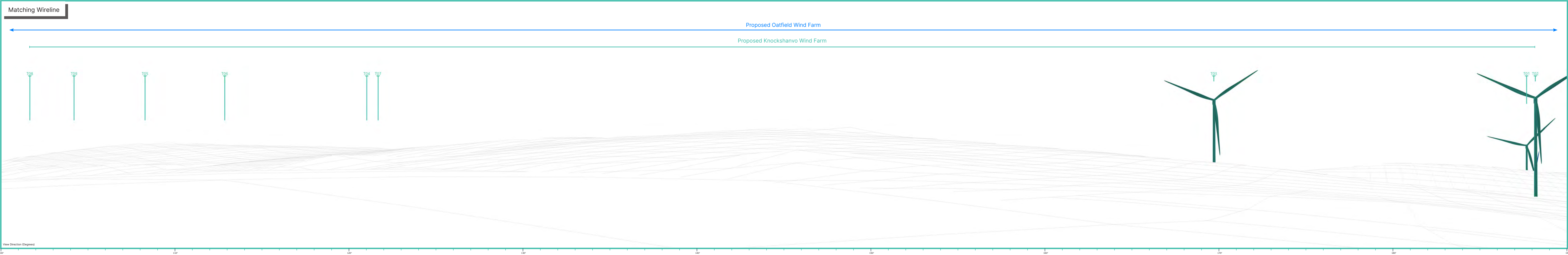
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast











Matching Wireline

Proposed Oatfield Wind Farm

Proposed Knockshanvo Wind Farm

T03

T01

T02

View Direction (Degrees)

120°

130°

140°

150°

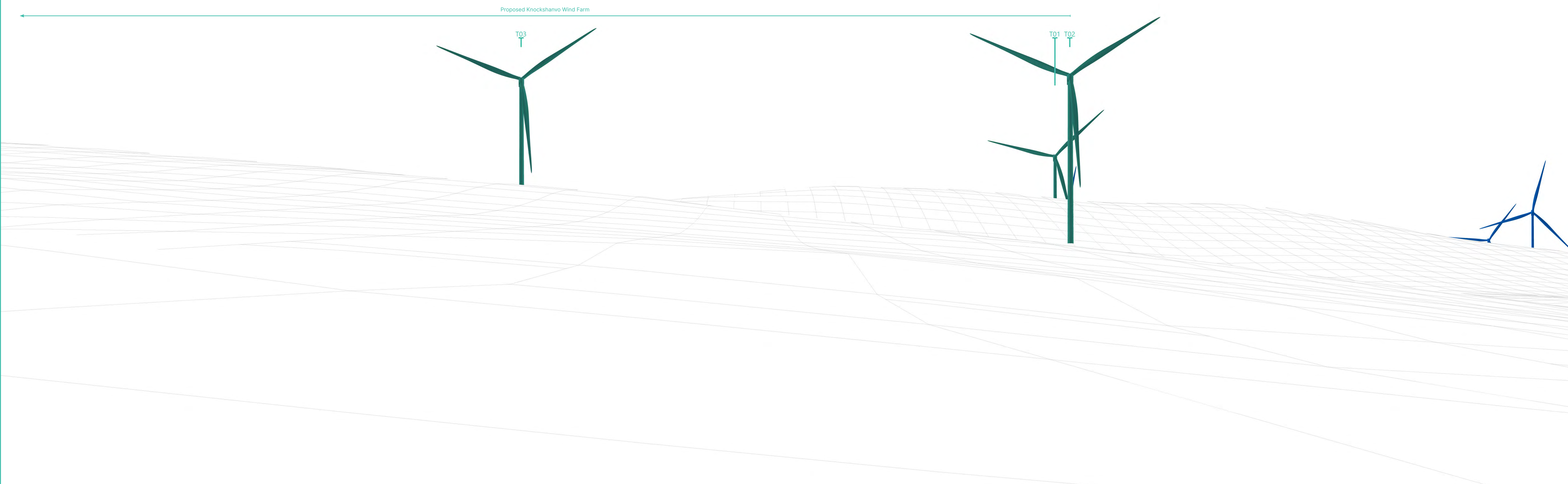
160°

170°

0° Included Vertical Angle (18.2°)

8.1°

18.2°





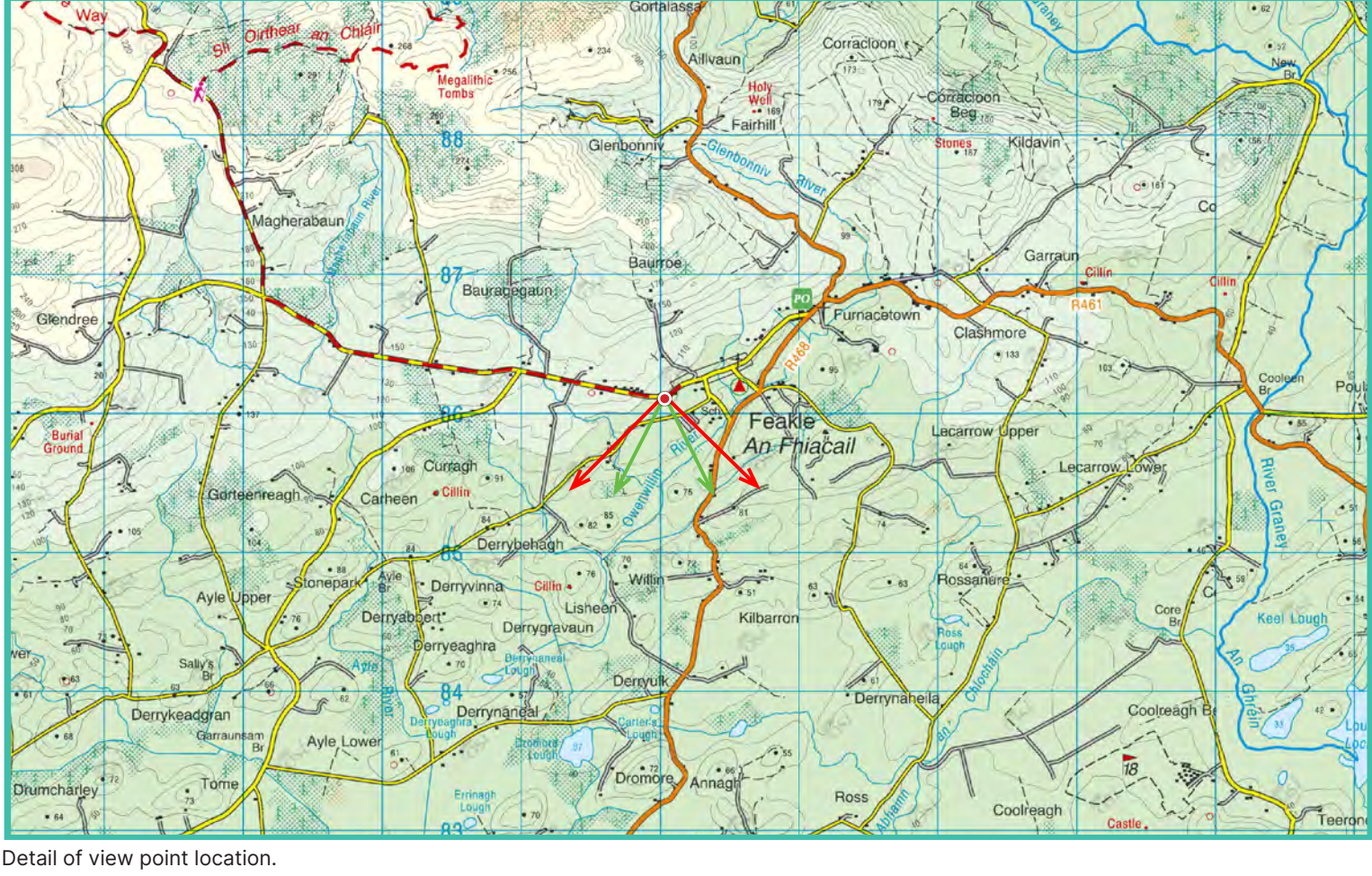
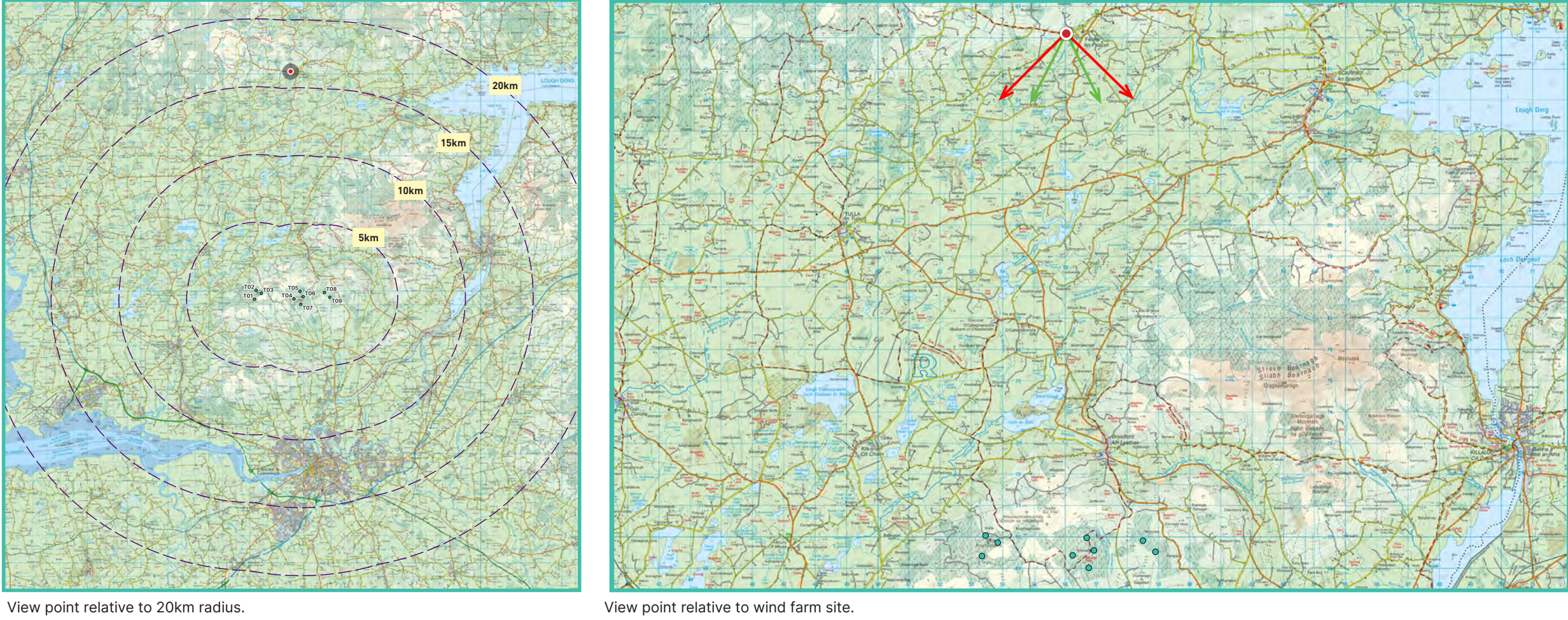




Photomontage 11

View from a local road near the village of Feakle in the townland of Baurroe. This viewpoint is located approximately 16km north from the nearest proposed turbine (T5).

View point grid reference	E 555986 N 686166
Date of image taken	30/05/2023
Time of image taken	08:48
View point elevation	96m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	180°
Horizontal extent of proposed turbines	19°
Distance to nearest proposed turbine	16km (T5)
Number of proposed turbines visible	9/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



Map Legend

Area shown in 90° view

Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

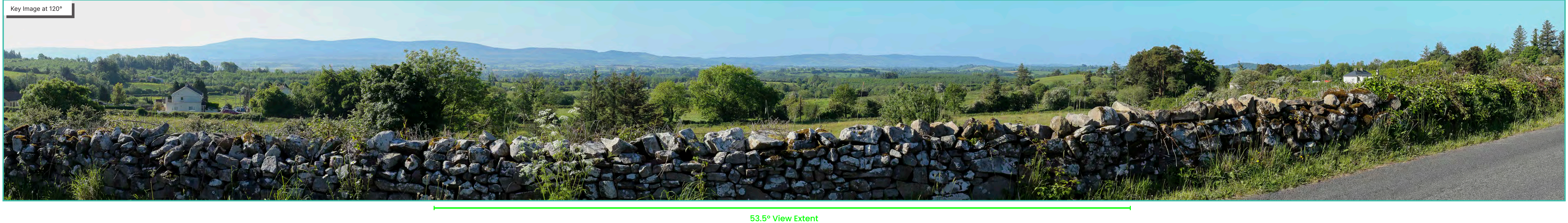
Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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

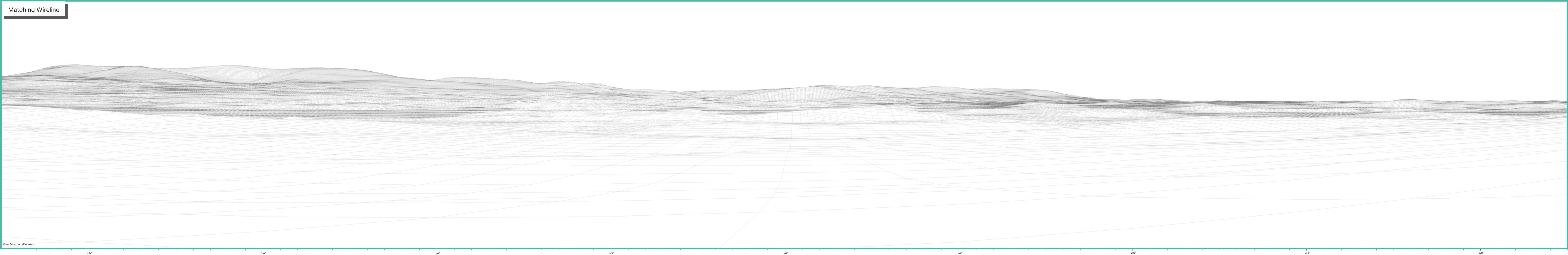




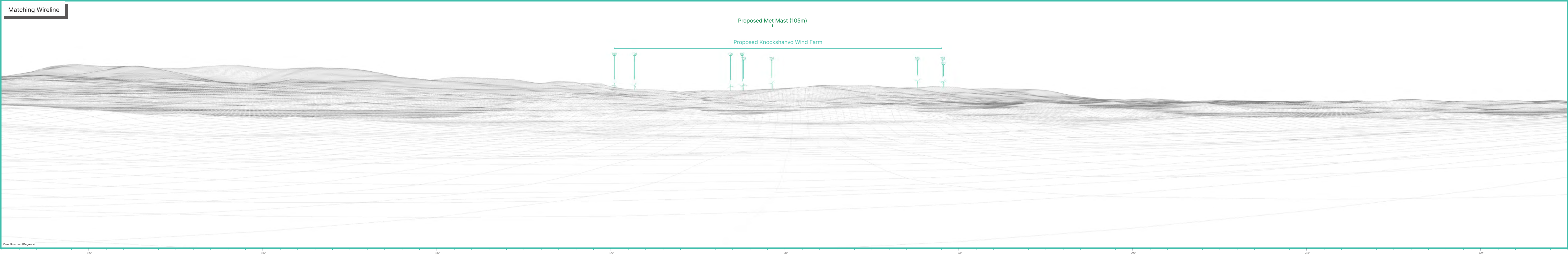
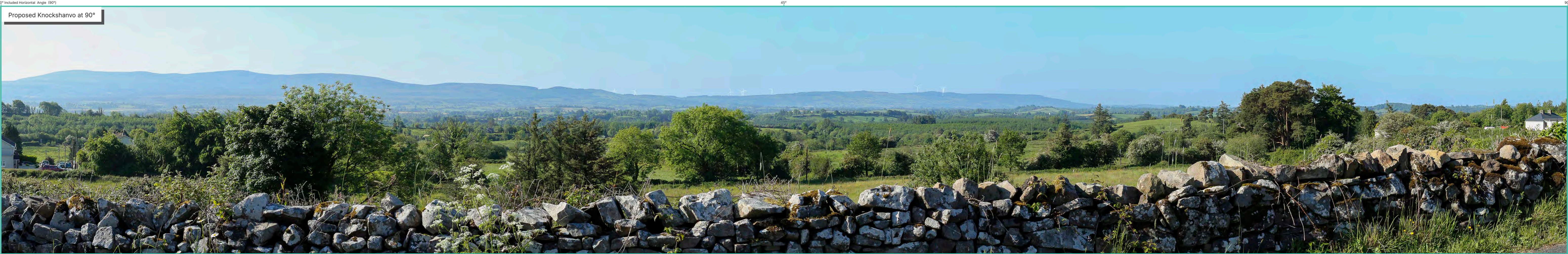
Existing View at 90°



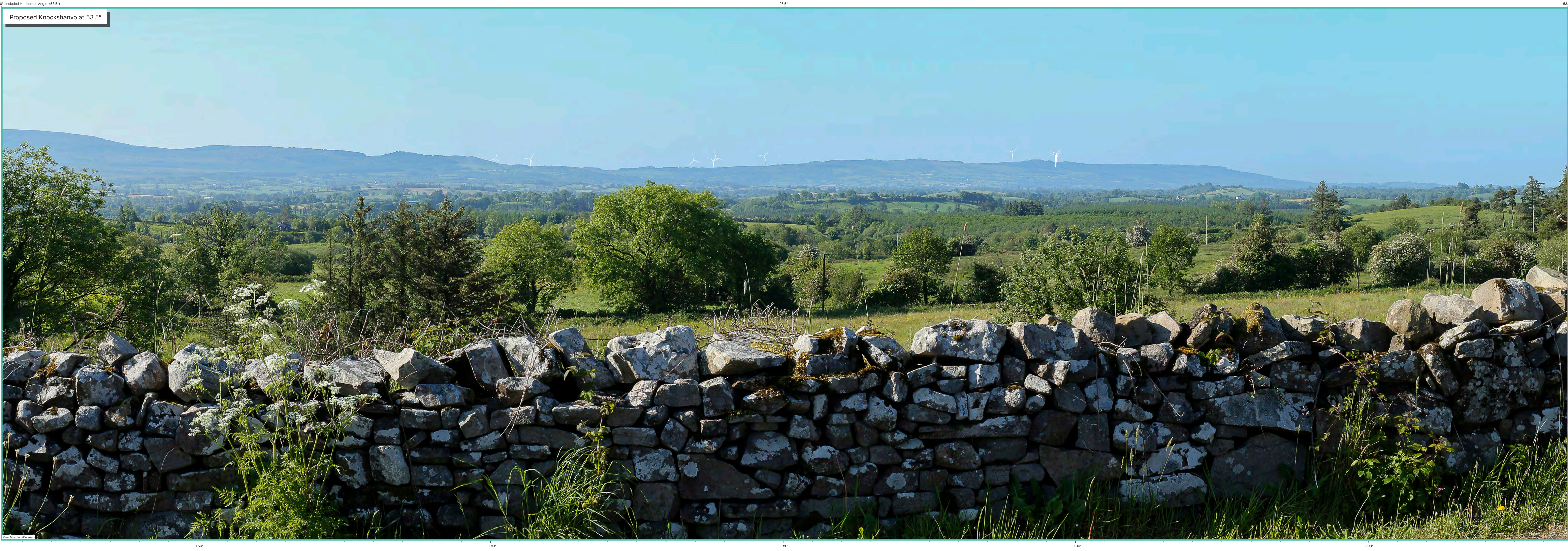
Matching Wireline



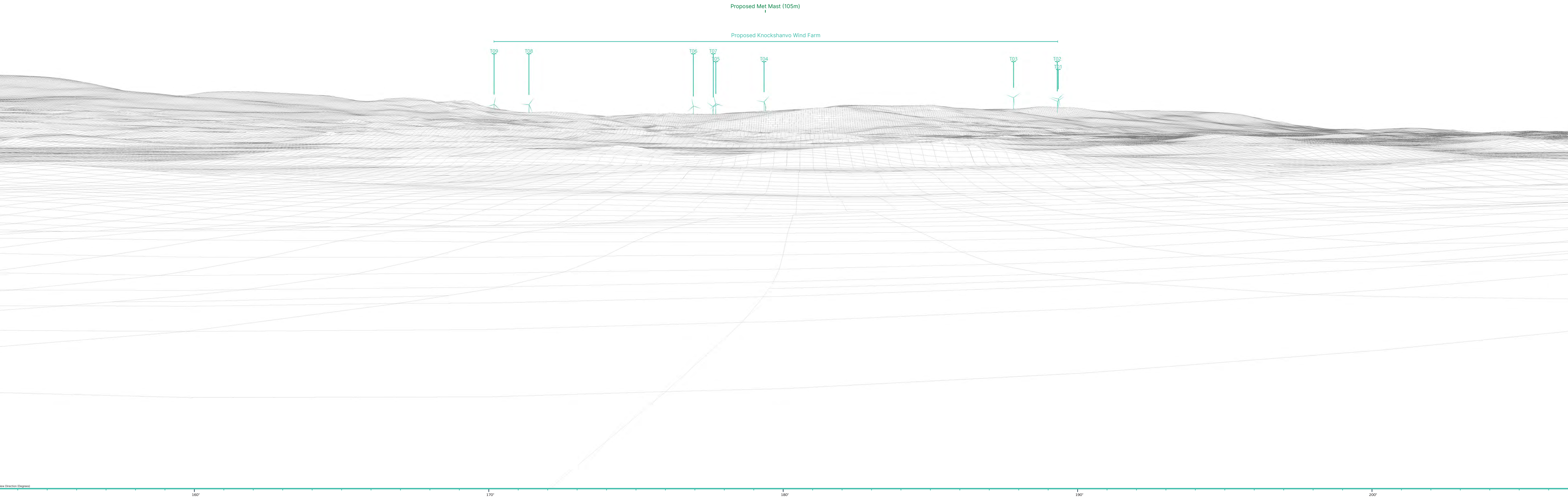












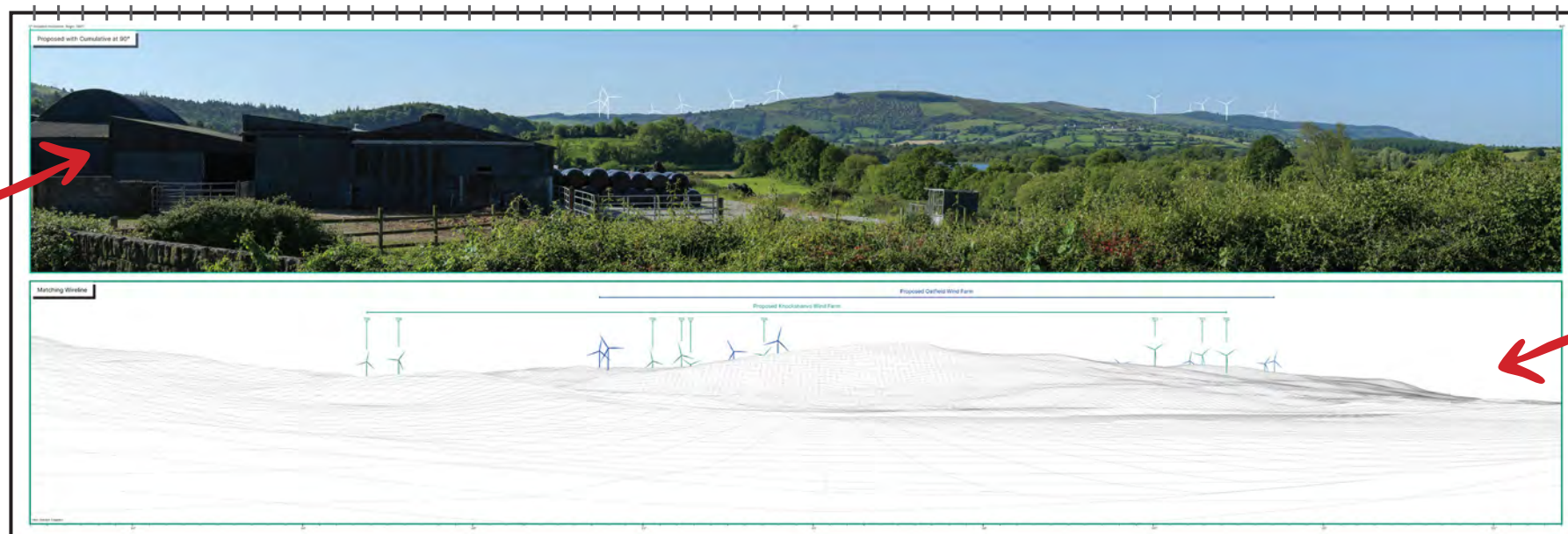


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...

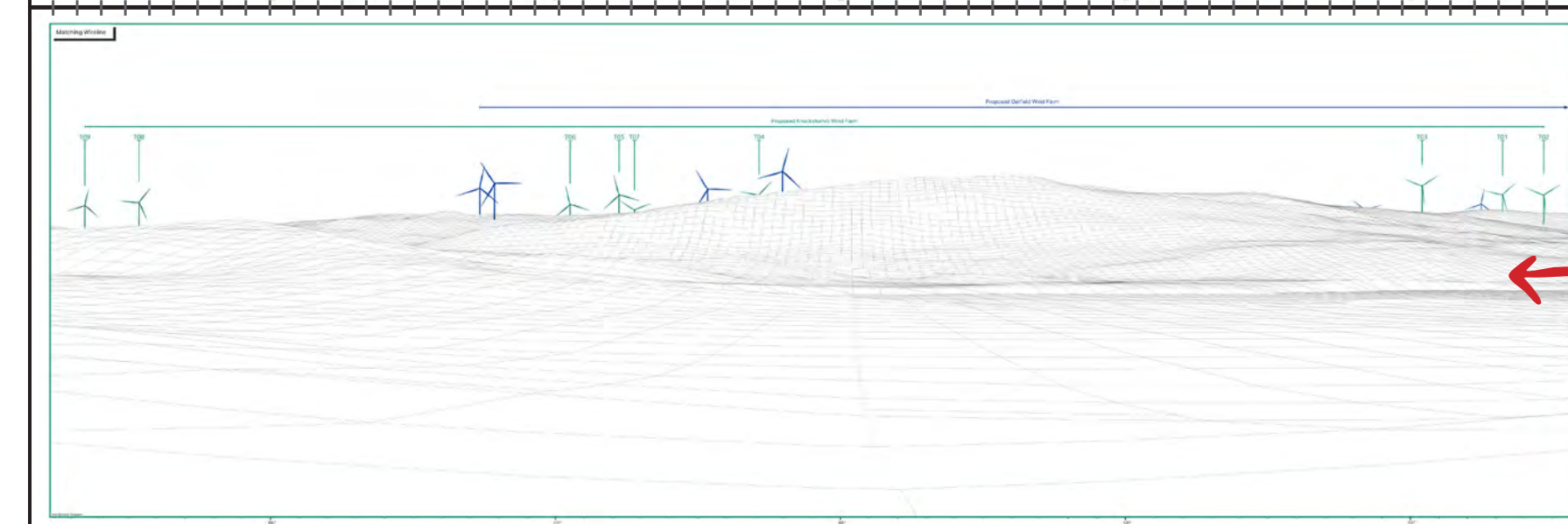


This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.



This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



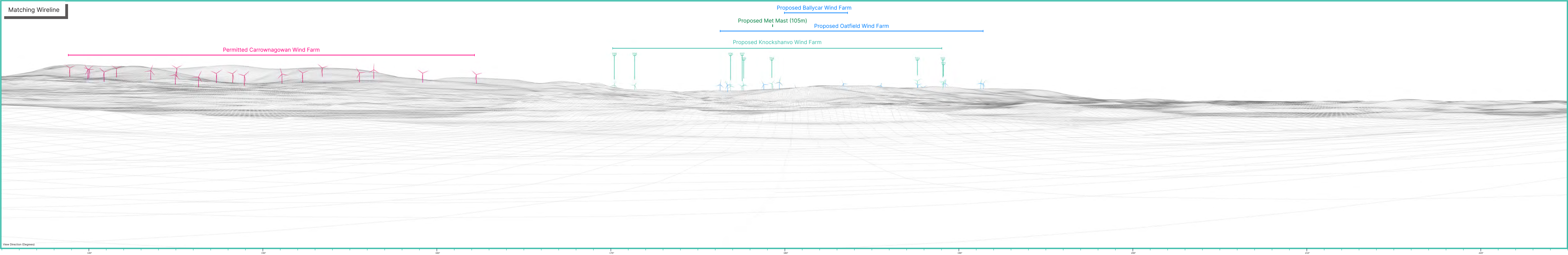
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast

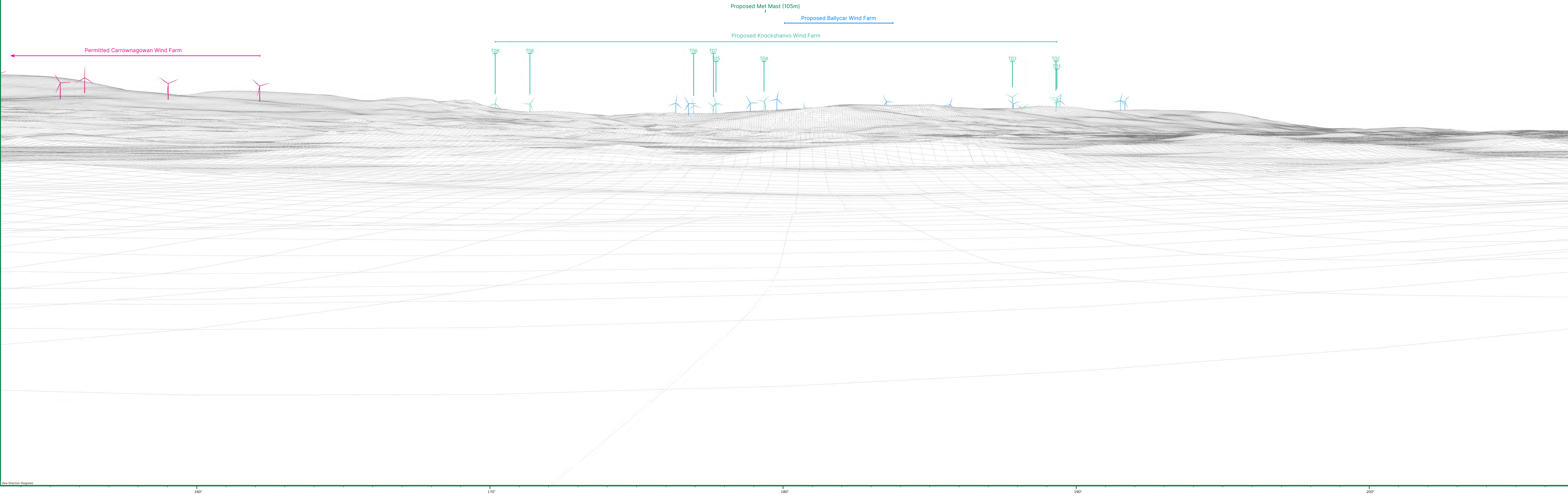














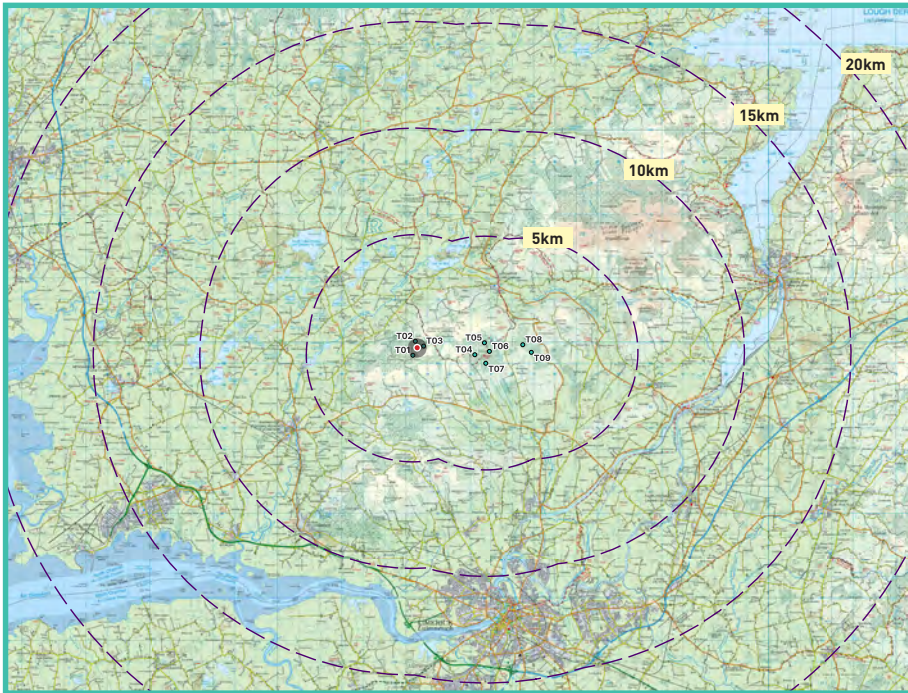




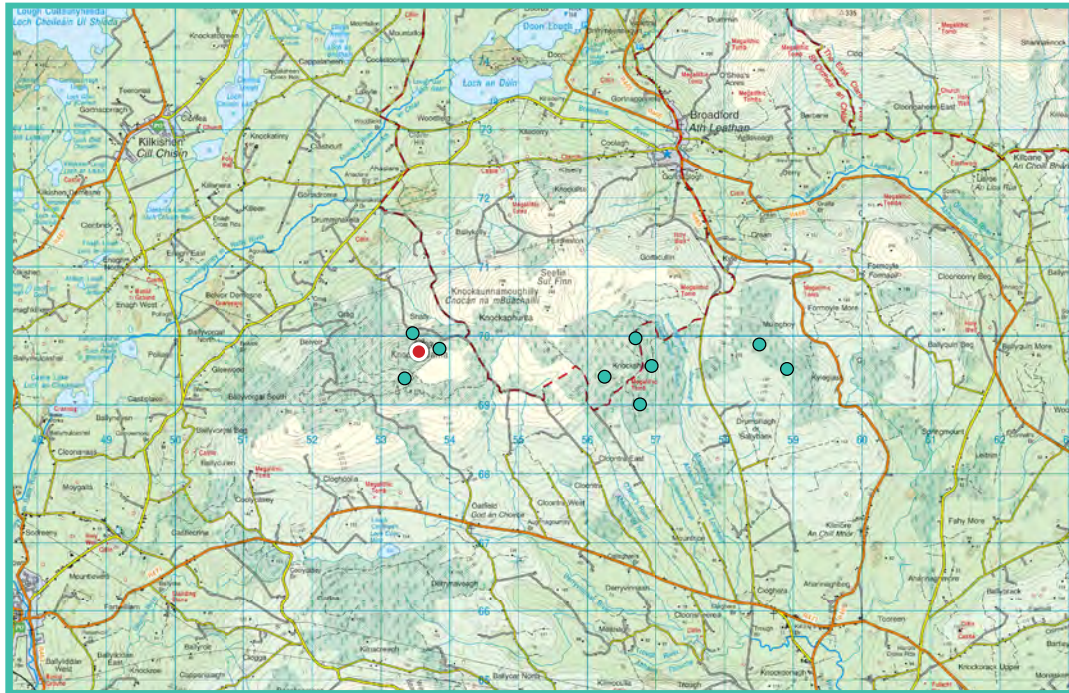
**Photomontage 12 (360° View)**

View from the summit of the 12 O'Clock Hills walking route in the townland of Snaty (Wilson). This viewpoint is located within the western cluster of turbines, approximately 224m south of the nearest proposed turbine (T2).

View point grid reference	E 553501 N 669867
Date of image taken	13/09/2022
Time of image taken	11:40
View point elevation	285m
Angle of Views	360°
View Direction (Image Centre)	220°
Distance to nearest proposed turbine	224m (T2)
Number of proposed turbines visible	9/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



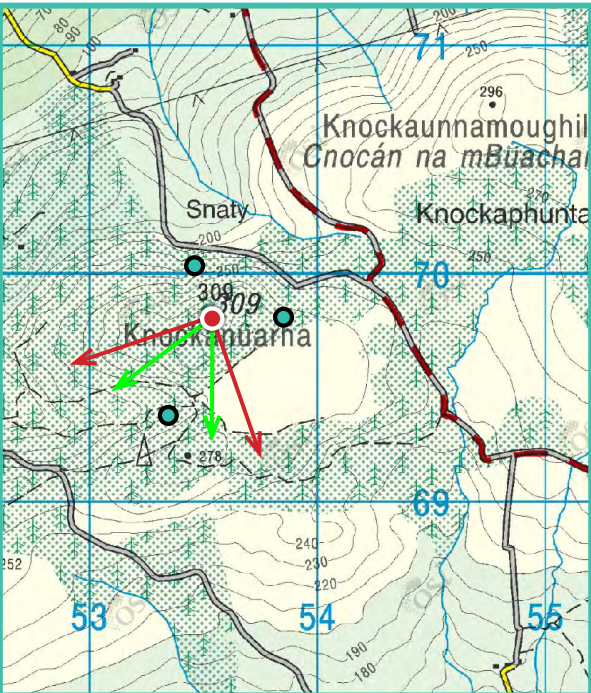
View point relative to 20km radius.



View point relative to wind farm site.



Detail of view point location. (VP12A)



Detail of view point location. (VP12B)



Detail of view point location. (VP12C)

Map Legend

Area shown in 90° view



Area shown in 53.5° view



View Point



Proposed Knockshanvo Turbines



Wireline Legend

Proposed Knockshanvo Wind Farm

Permitted Wind Farms

Other Proposed Wind Farms

Proposed Met Mast (105m)

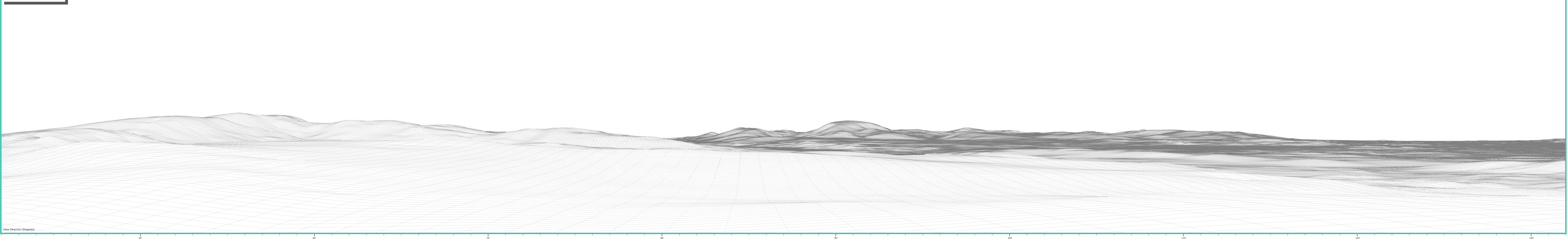
Existing Wind Farms







Matching Wireline

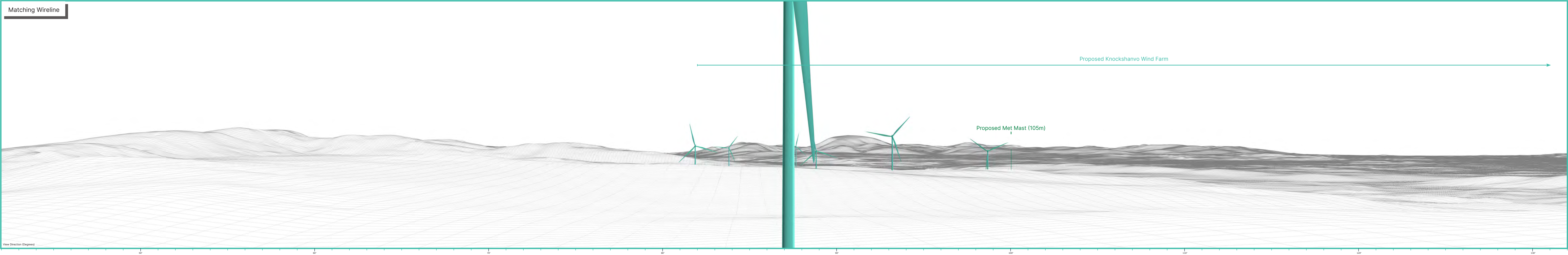




VP12A Proposed Knockshanvo at 90° (View to East)



Matching Wireline







0° Included Horizontal Angle (53.5°)

26.5°

53.5°

VP12A Proposed Knockshanvo at 53.5° (View to East)

0° Included Vertical Angle (18.2°)

View Direction (Degrees)

70°

80°

90°

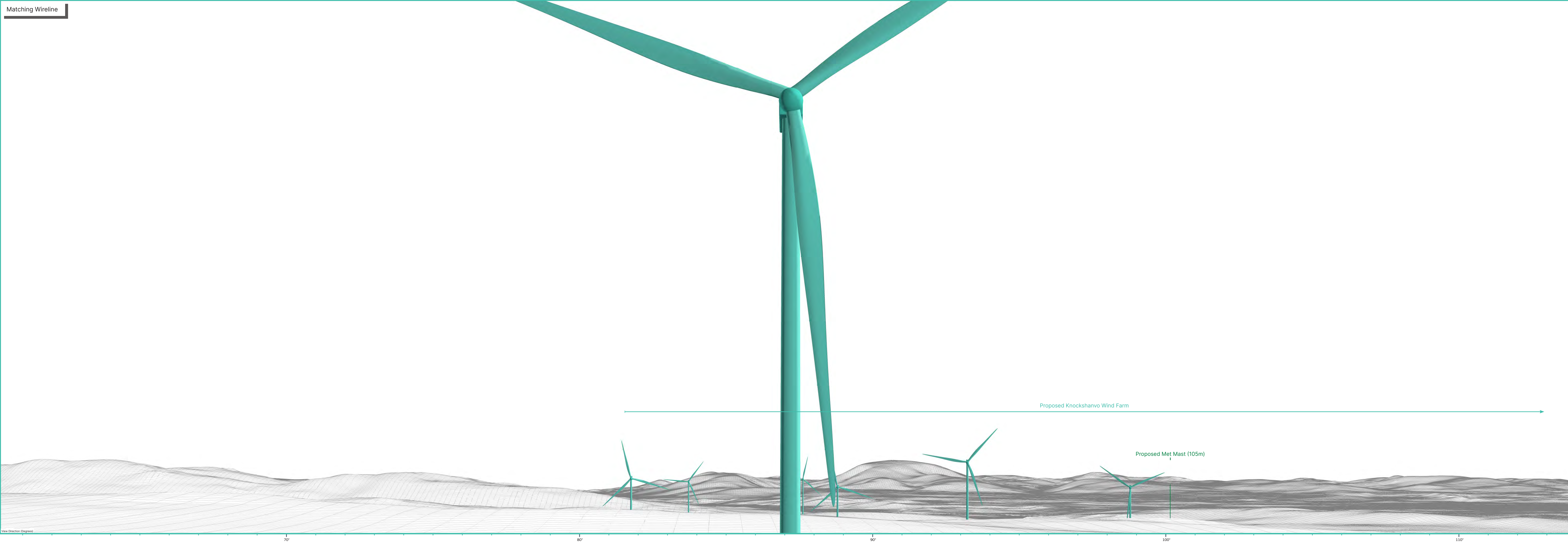
100°

110°

18.2°



Matching Wireline



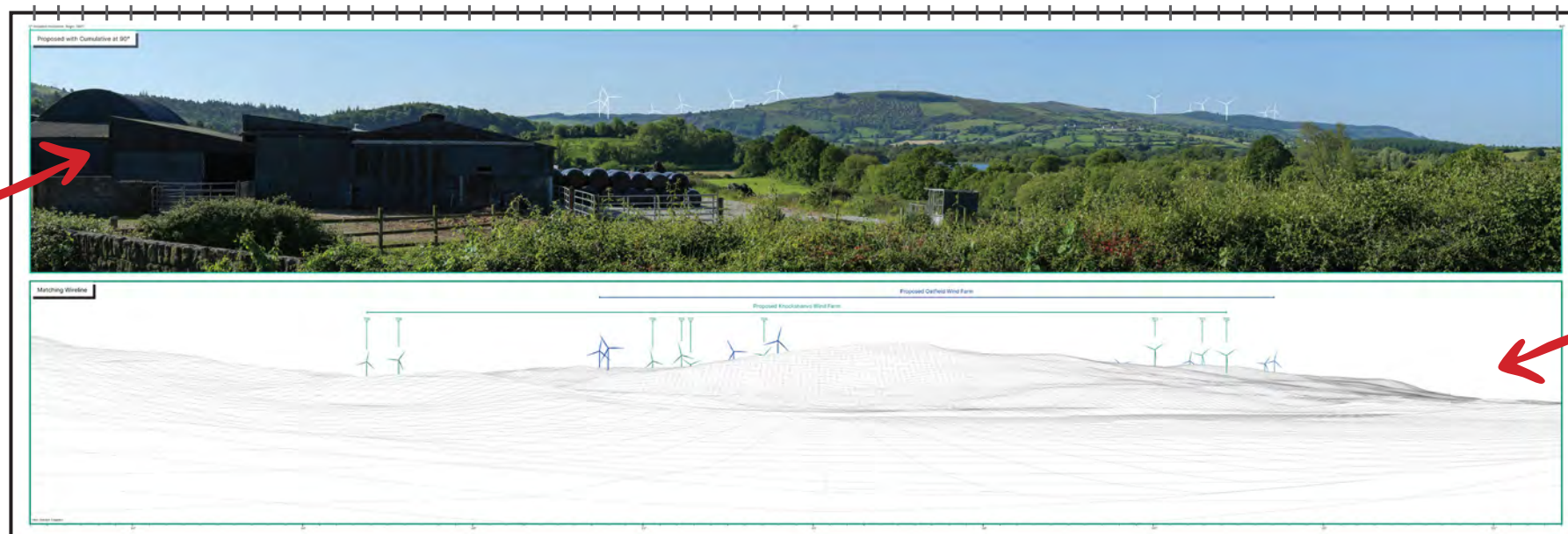


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...

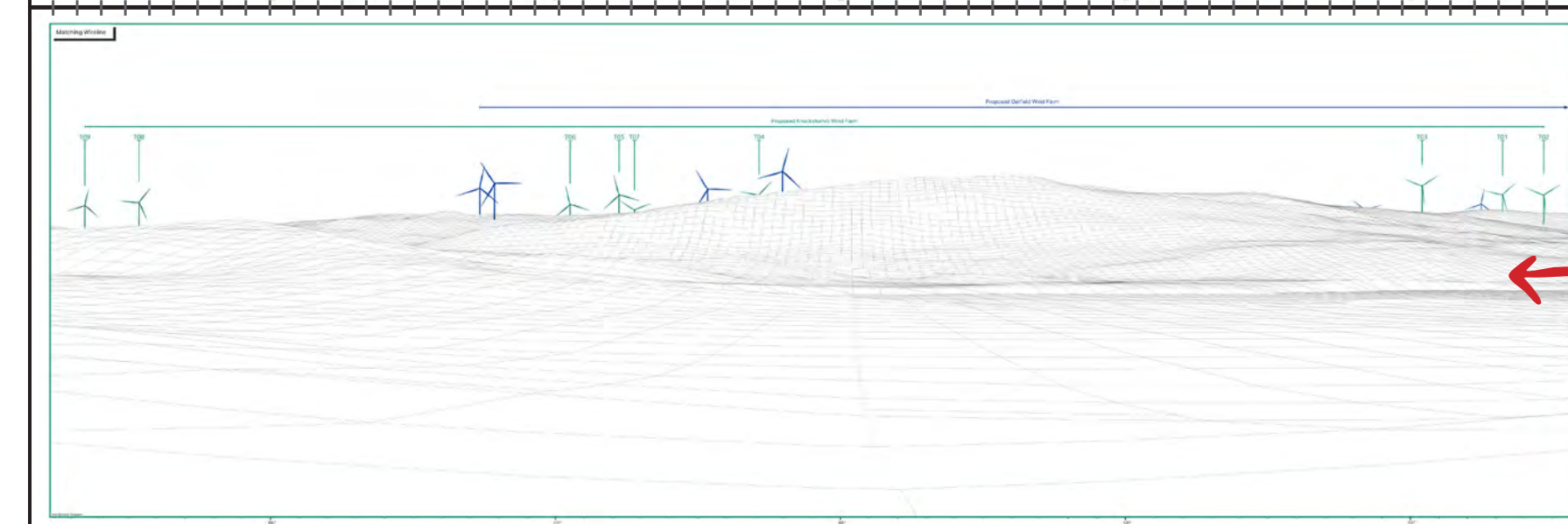


This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.



This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



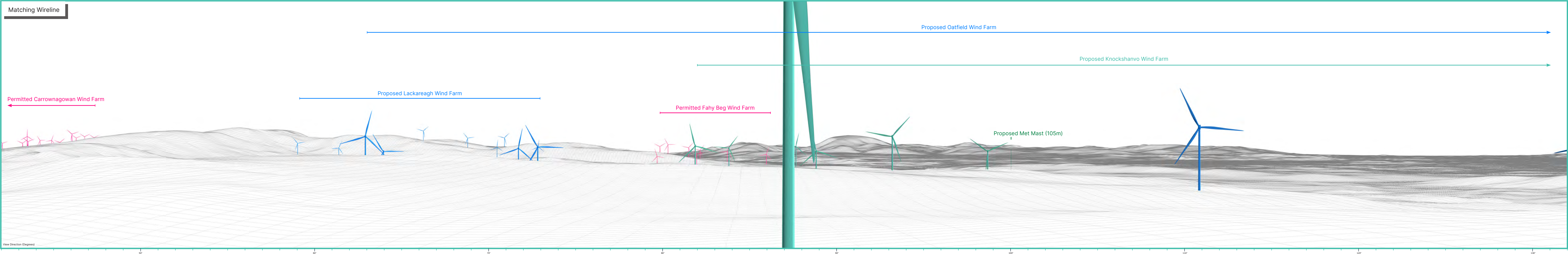
Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast



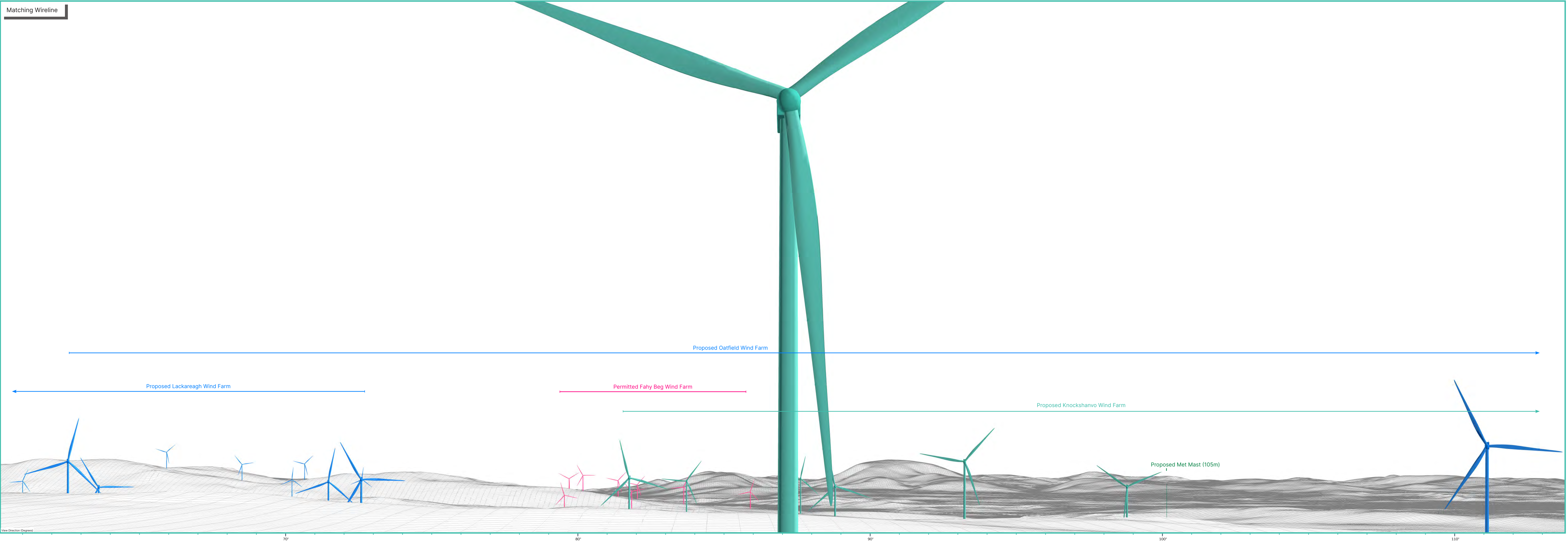




VP12A Proposed with Cumulative at 53.5° (View to East)





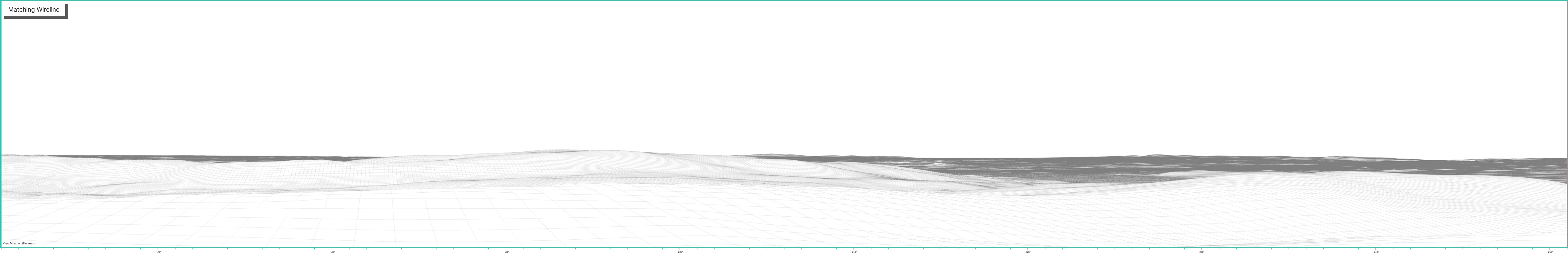




VP12B Existing View at 90° (View to South - West)



Matching Wireline

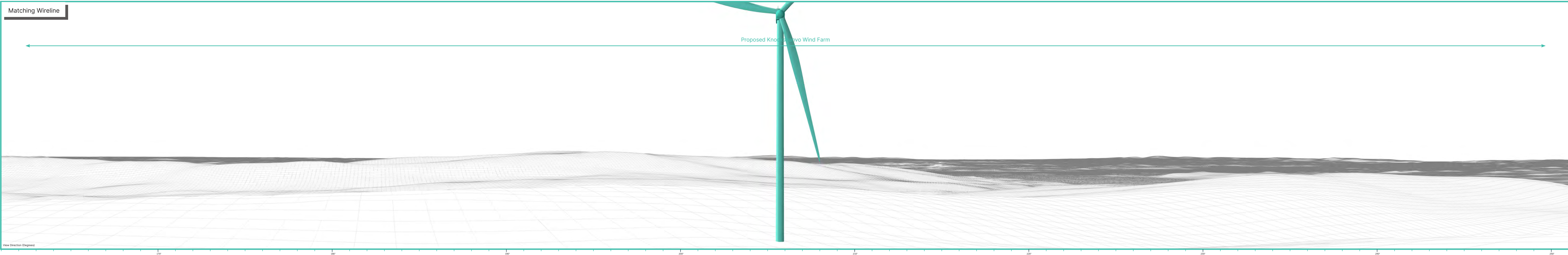




VP12B Proposed Knockshanvo at 90° (View to South - West)



Matching Wireline









Matching Wireline

Proposed Knockshanvo Wind Farm

View Direction (Degrees)

180°

190°

200°

210°

220°

230°

0° Included Vertical Angle (18.2°)

81°

18.2°

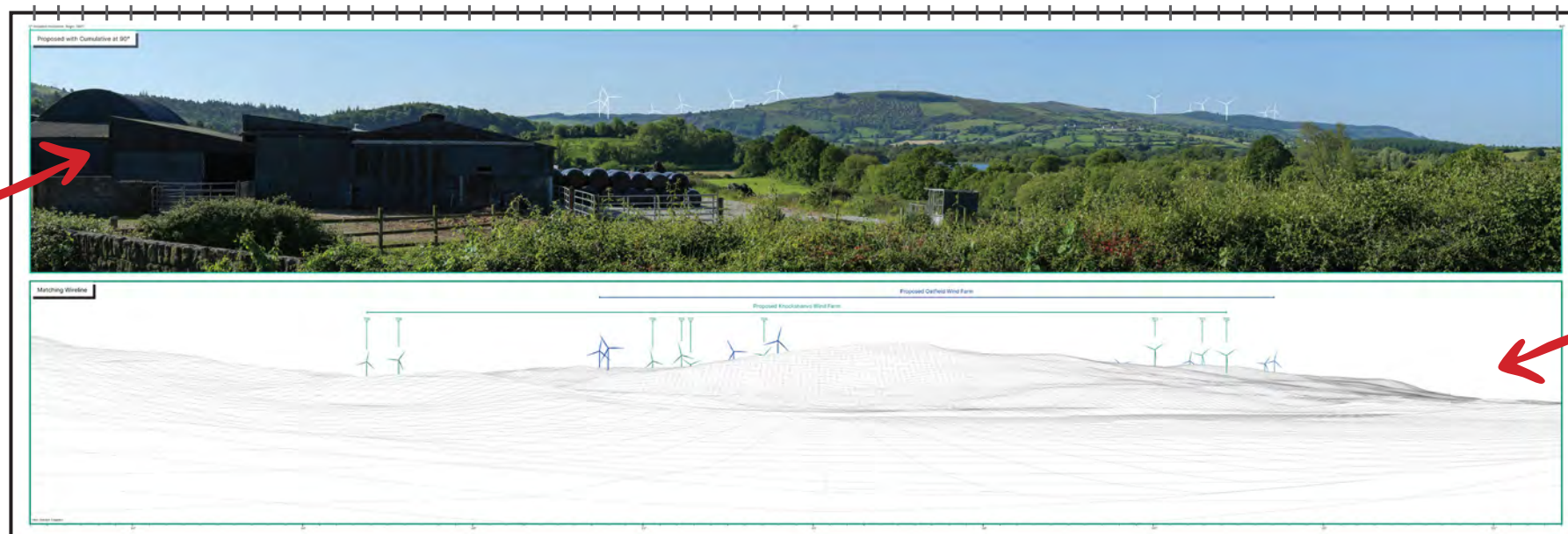


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



Other Proposed Wind Farms

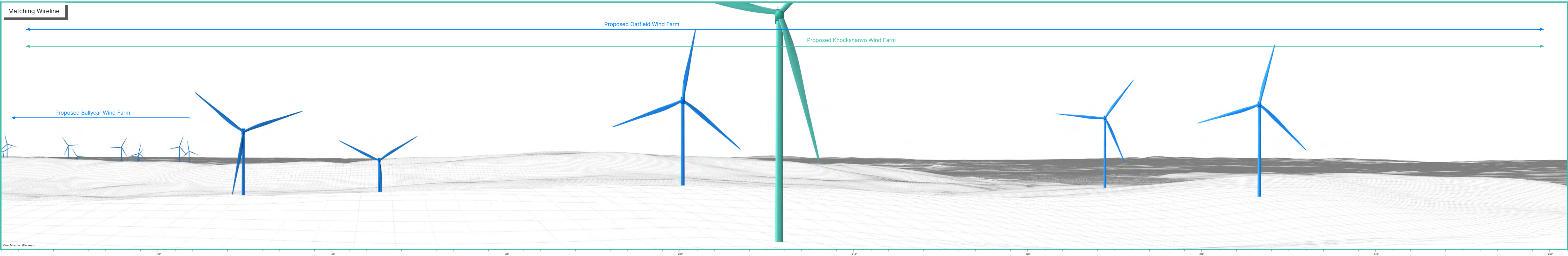
Proposed Met Mast



VP12B Proposed with Cumulative at 90° (View to South - West)



Matching Wireline









Matching Wireline

Proposed Oatfield Wind Farm

Proposed Knockshanvo Wind Farm

View Direction (Degrees)

180°

190°

200°

210°

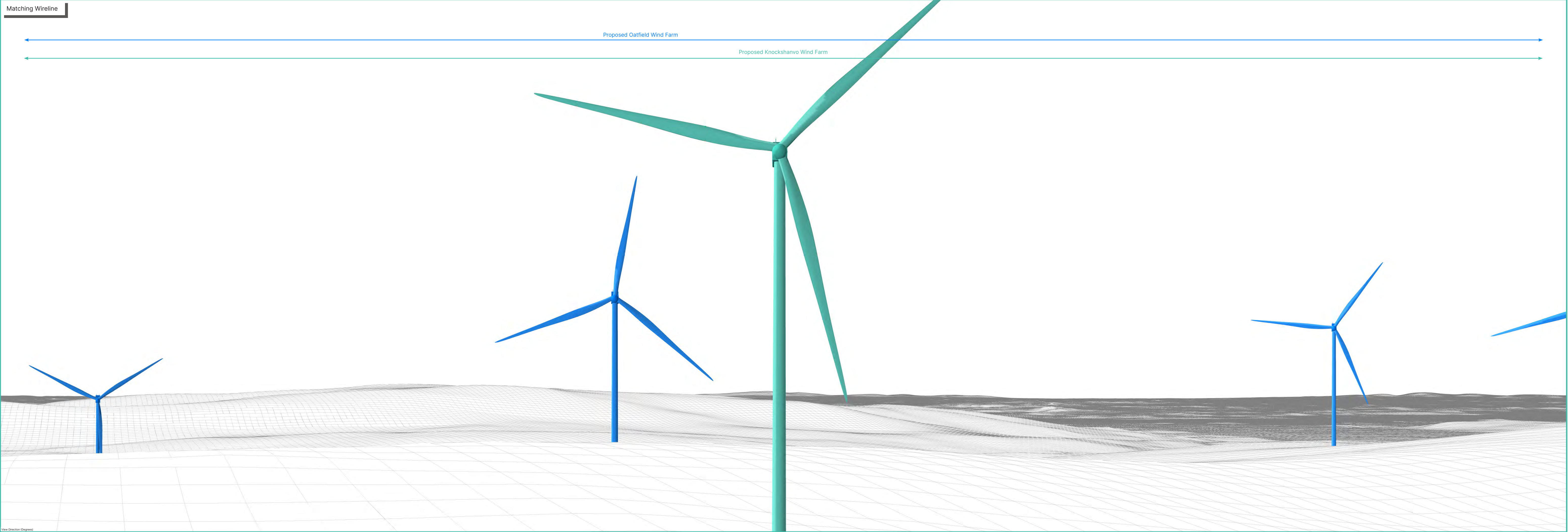
220°

230°

0° Included Vertical Angle (18.2°)

81°

18.2°

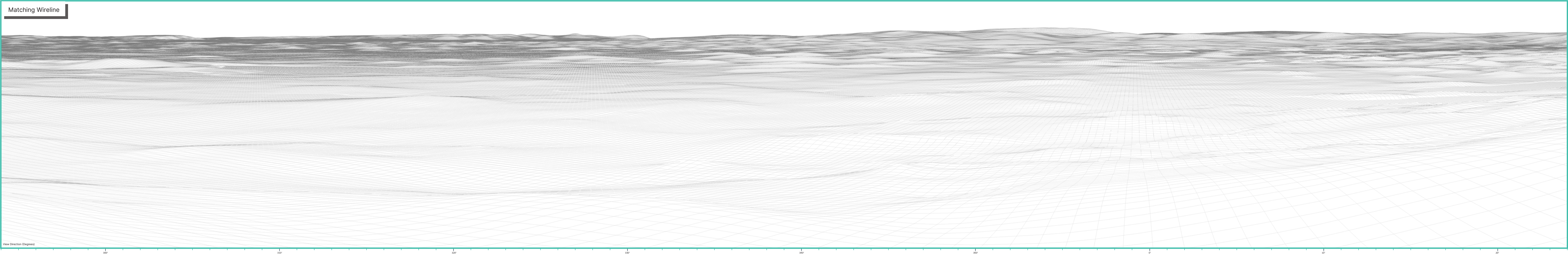




VP12C Existing View at 90° (View to North - West)



Matching Wireline

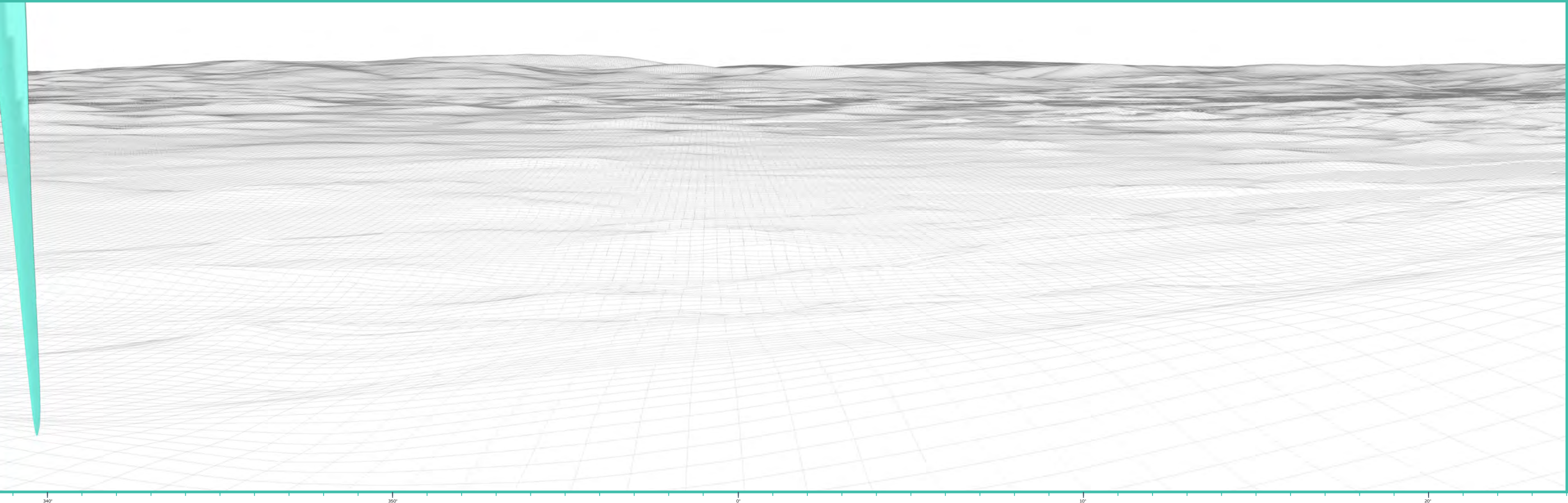
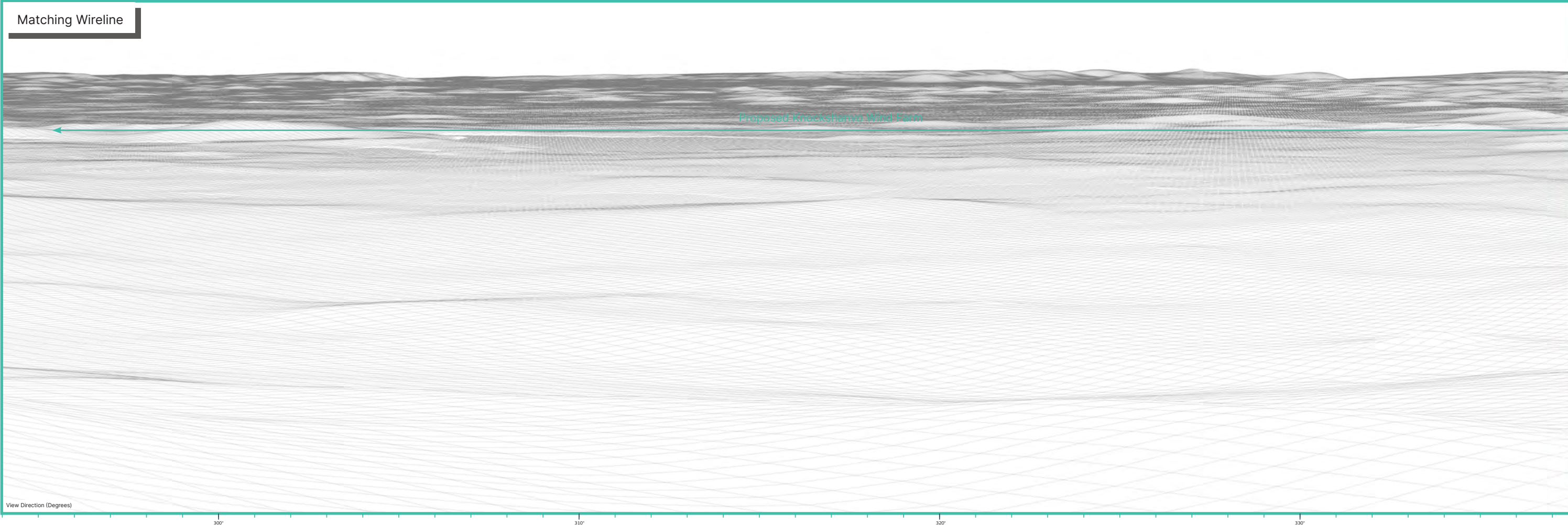




VP12C Proposed Knockshanvo at 90° (View to North - West)



Matching Wireline









Matching Wireline

Proposed Knockshanvo Wind Farm

View Direction (Degrees)

320°

330°

340°

350°

0°

0° Included Vertical Angle (18.2°)

81°

18.2°







View Point

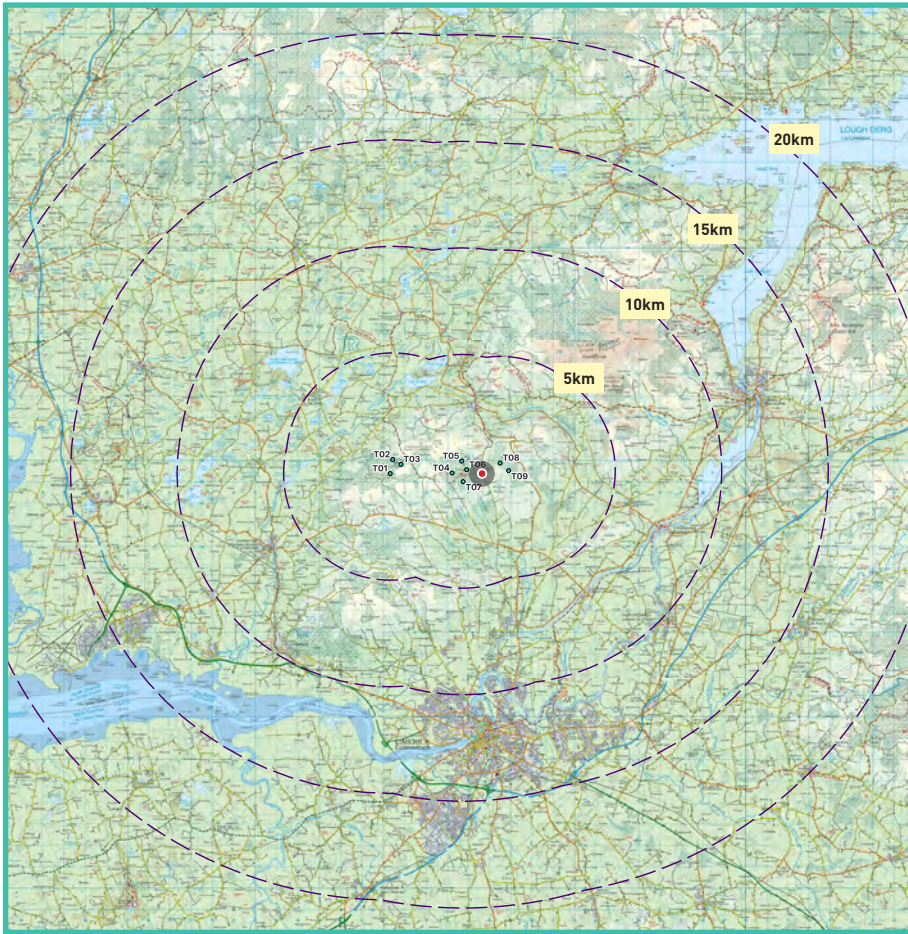
13

Drumsillagh or Sallybank (Parker)

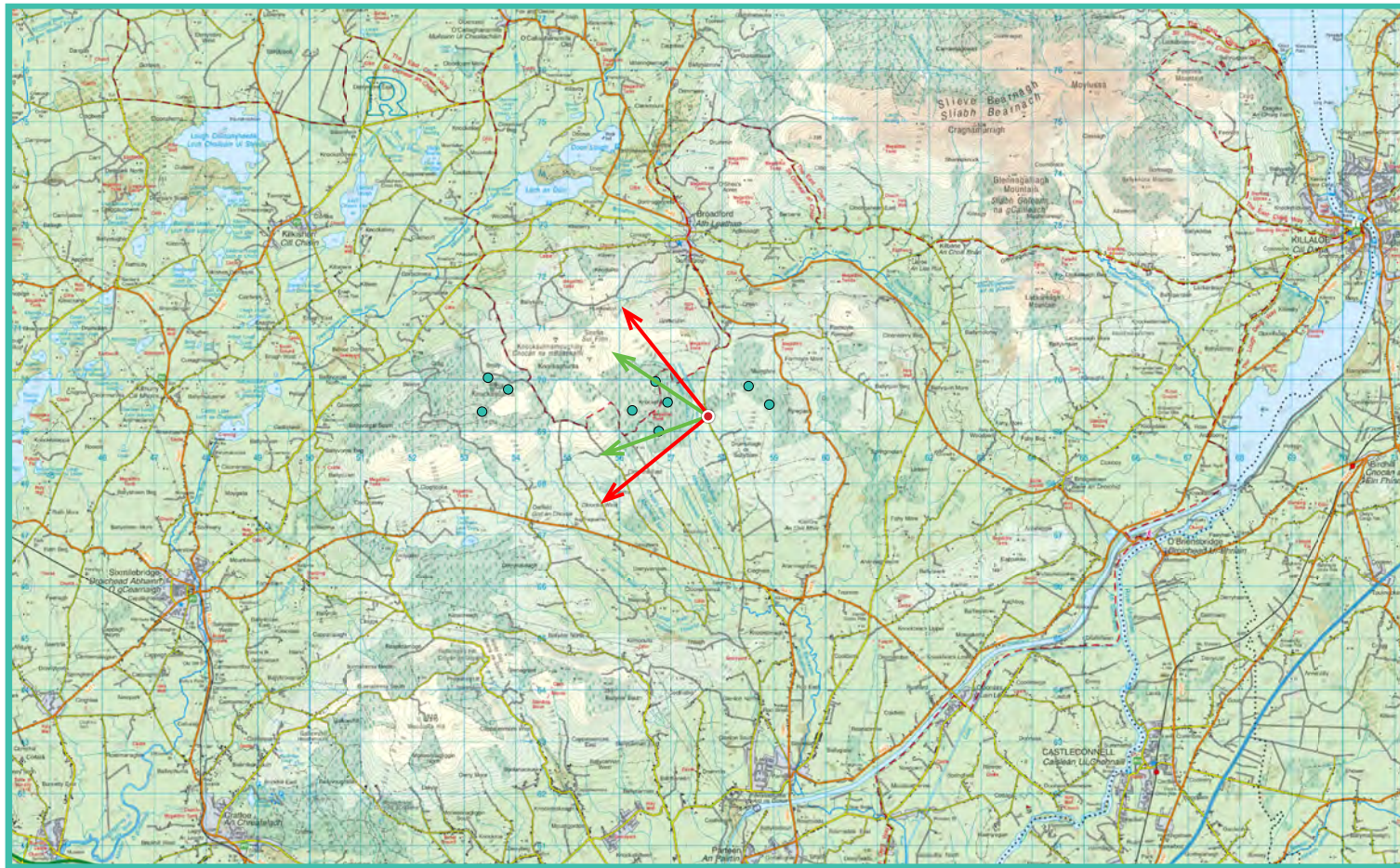
Photomontage 13

View from L3042 local road in the townland of Drumsillagh or Sallybank (Parker). This viewpoint is located approximately 800m west of the nearest proposed turbine (T6)

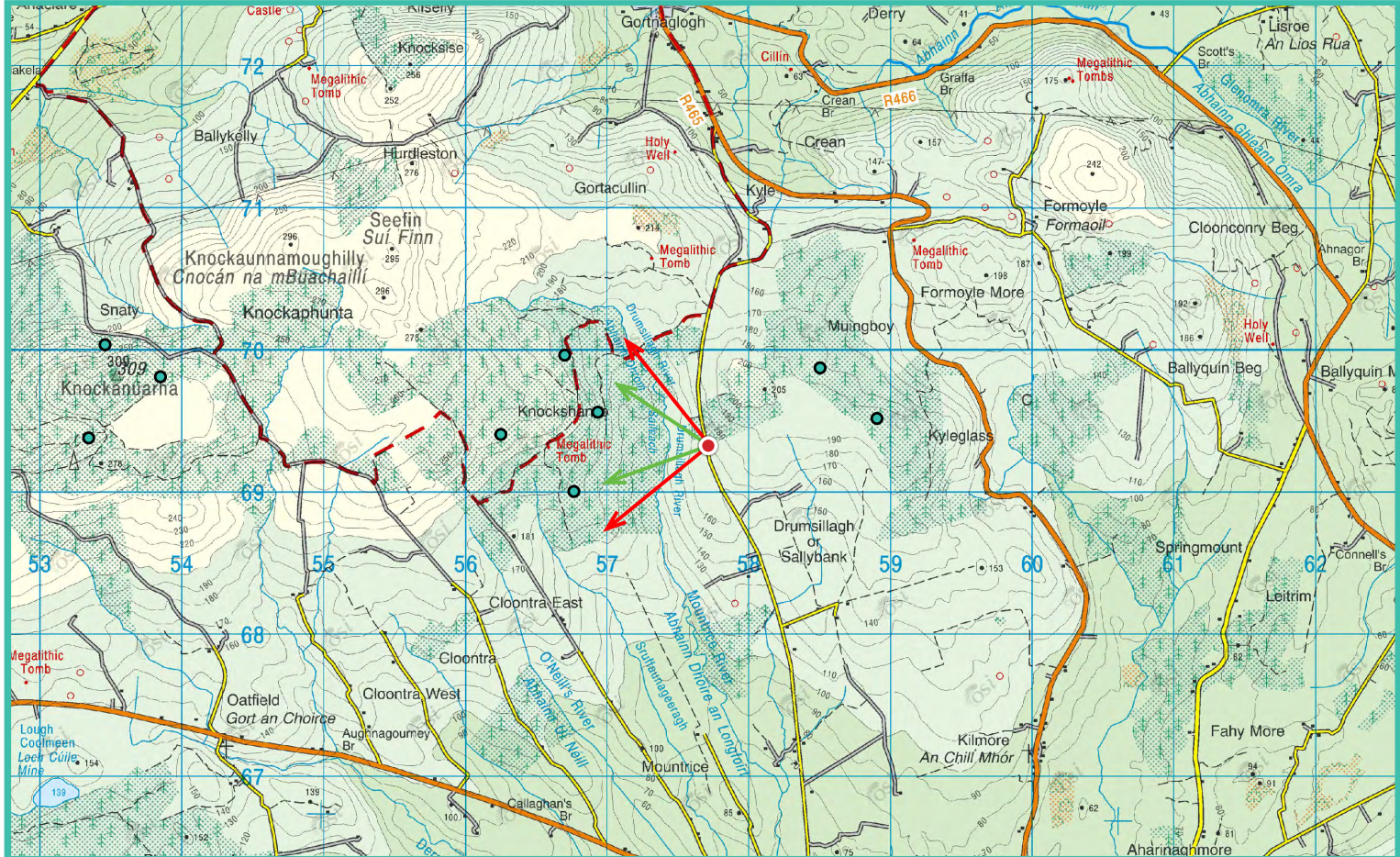
View point grid reference	E 557675 N 669317
Date of image taken	24/04/2024
Time of image taken	14:42
View point elevation	169m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	281°
Horizontal extent of proposed turbines	52°
Distance to nearest proposed turbine	800m (T6)
Number of proposed turbines visible	6/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.



Detail of view point location.

Map Legend

Area shown in 90° view Area shown in 53.5° view

View Point

Proposed Knockshanvo Turbines

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

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°

90° View Extent

53.5° View Extent



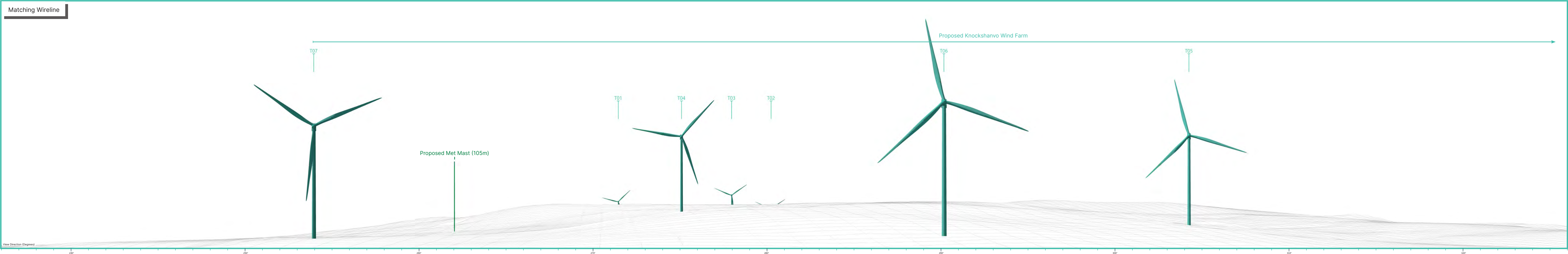
Existing View at 90°



Matching Wireline



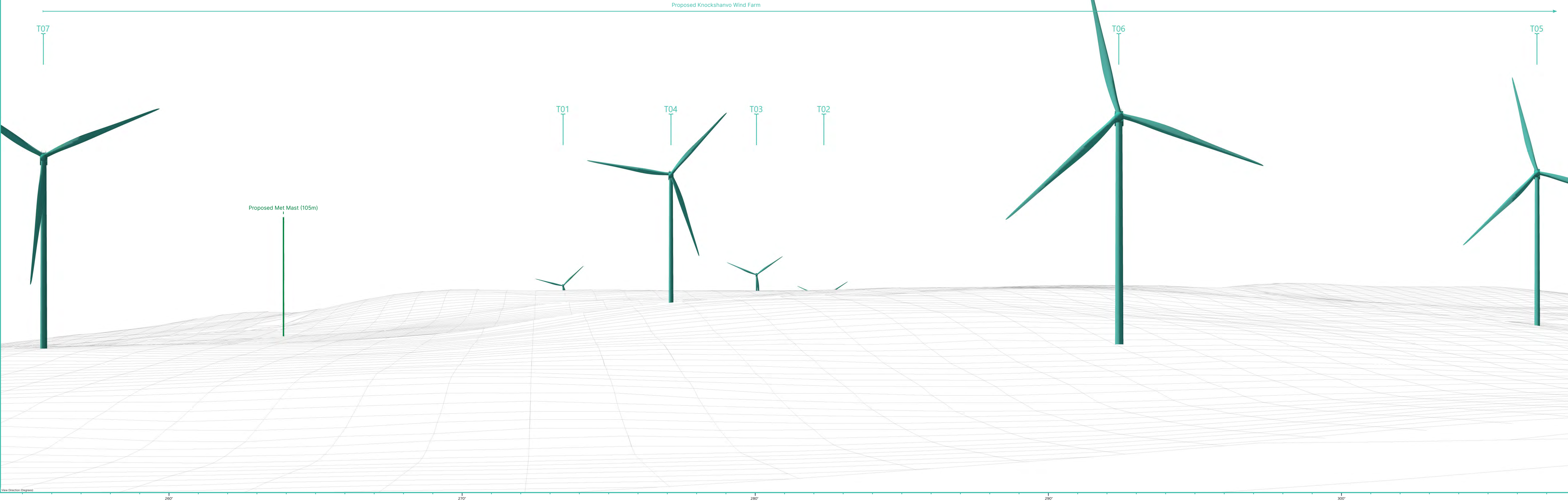












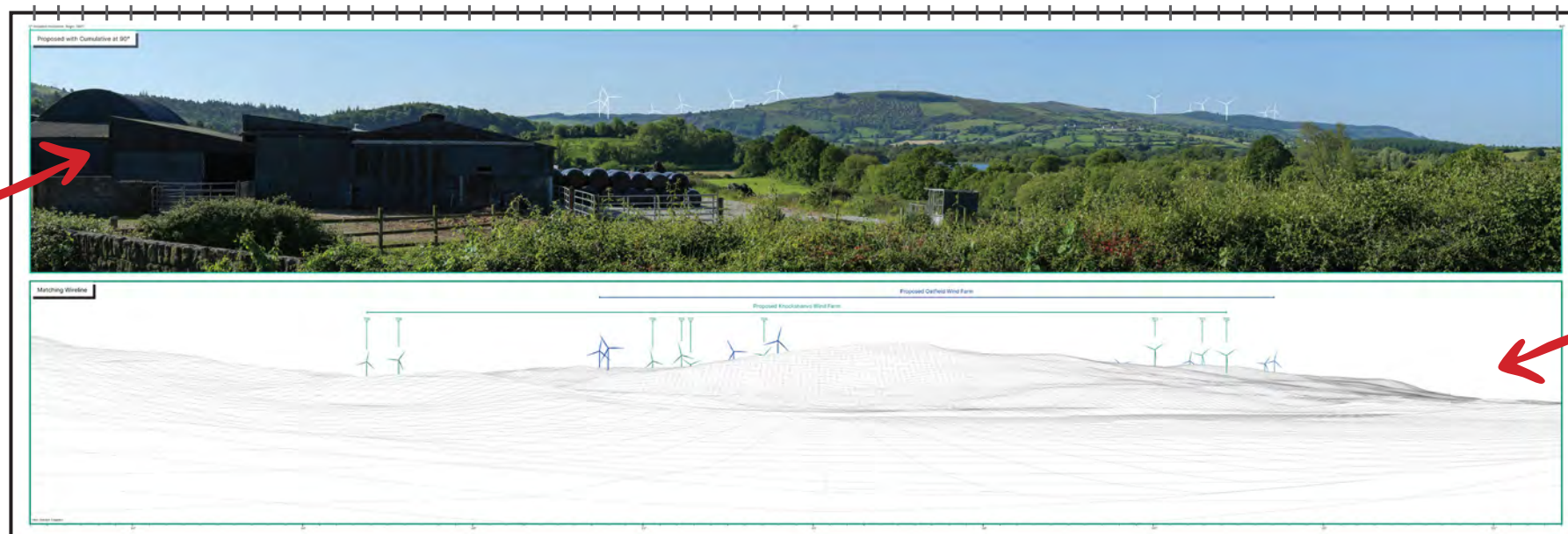


# 'CUMULATIVE' VIEWS

## PHOTOMONTAGES INCLUDING OTHER PERMITTED AND PROPOSED WIND FARMS

Using 3d software, the "Proposed with Cumulative at 90°" illustrates how the proposed development may look if constructed.

This image also includes cumulative wind farms in the area, i.e existing, permitted, other proposed wind farms etc...



This 90° matching wireline shows the Proposed Development including cumulative within 20km



This image illustrates the "Proposed with Cumulative at 53.5°"

This image also includes the cumulative wind farms in the area.

This 53.5° matching wireline shows the Proposed Development including cumulative within 20km

## TURBINE GUIDE

Colour reference indicating the status of each development.



Proposed Knockshanvo Wind Farm



Existing Wind Farms



Permitted Wind Farms



Other Proposed Wind Farms

Proposed Met Mast

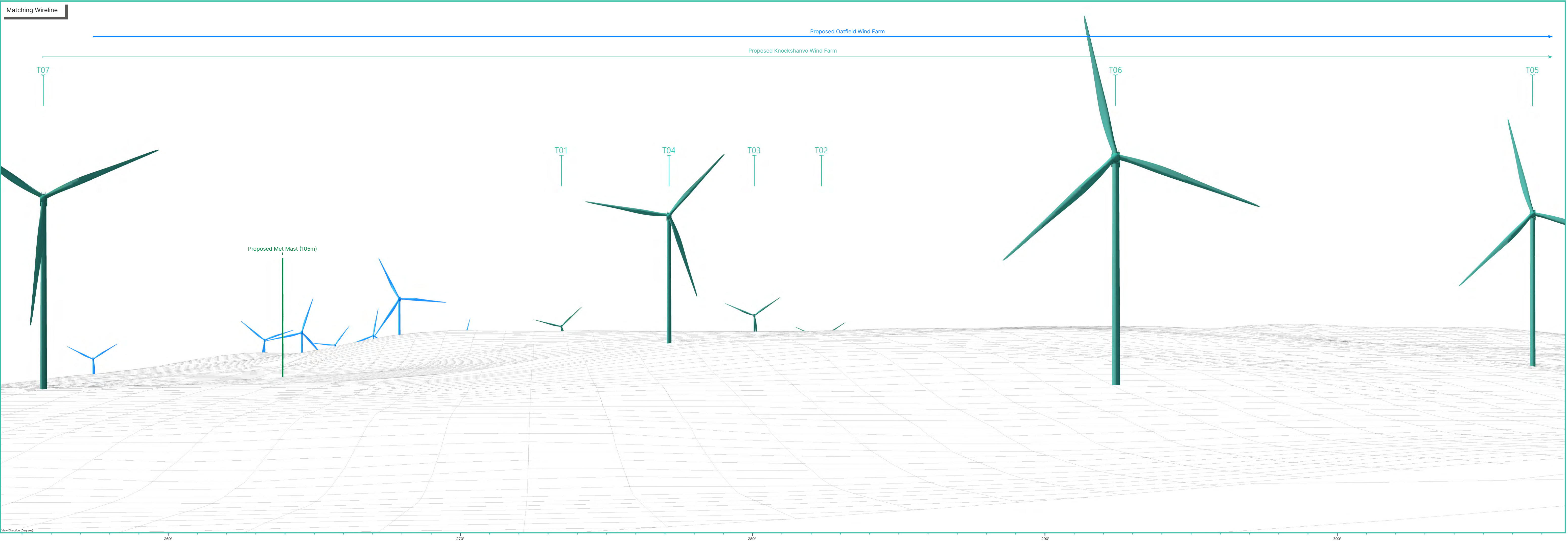














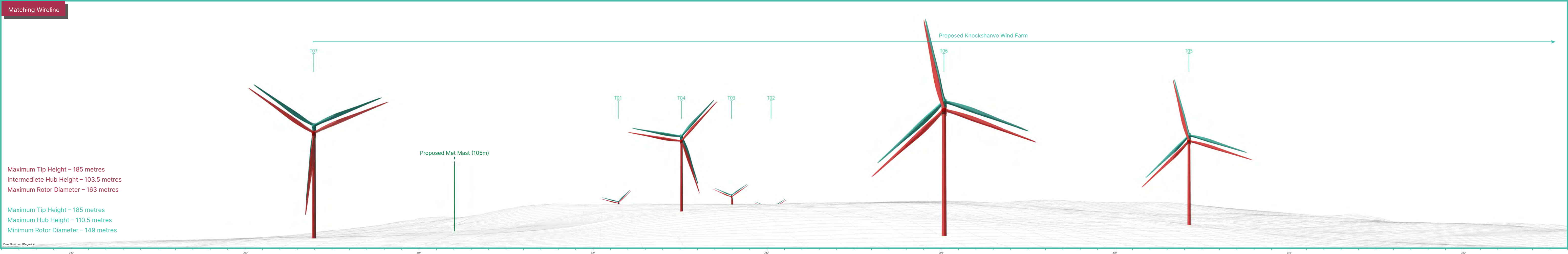


**VP13**

# **TURBINE ENVELOPE RANGE**

Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter

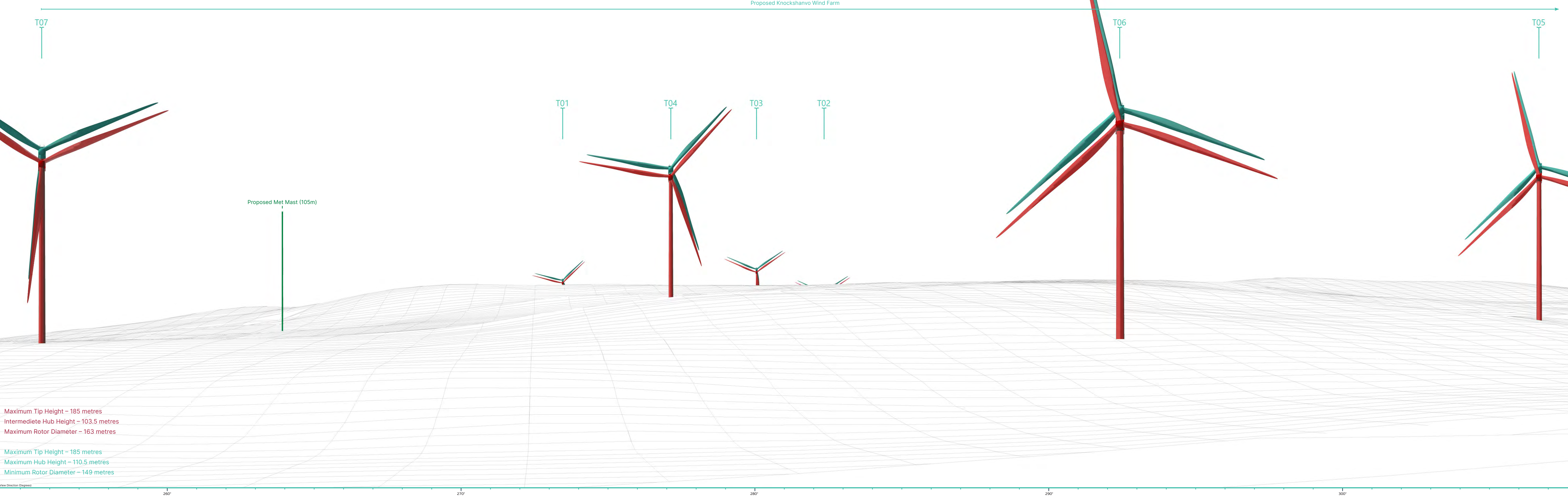














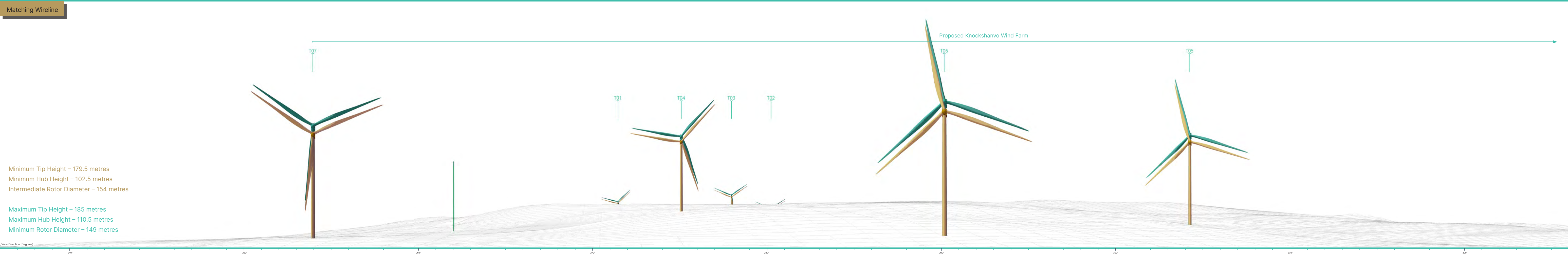


**VP13**

# **TURBINE ENVELOPE RANGE**

Minimum Tip Height, Minimum Hub Height, Intermediate Rotor Diameter

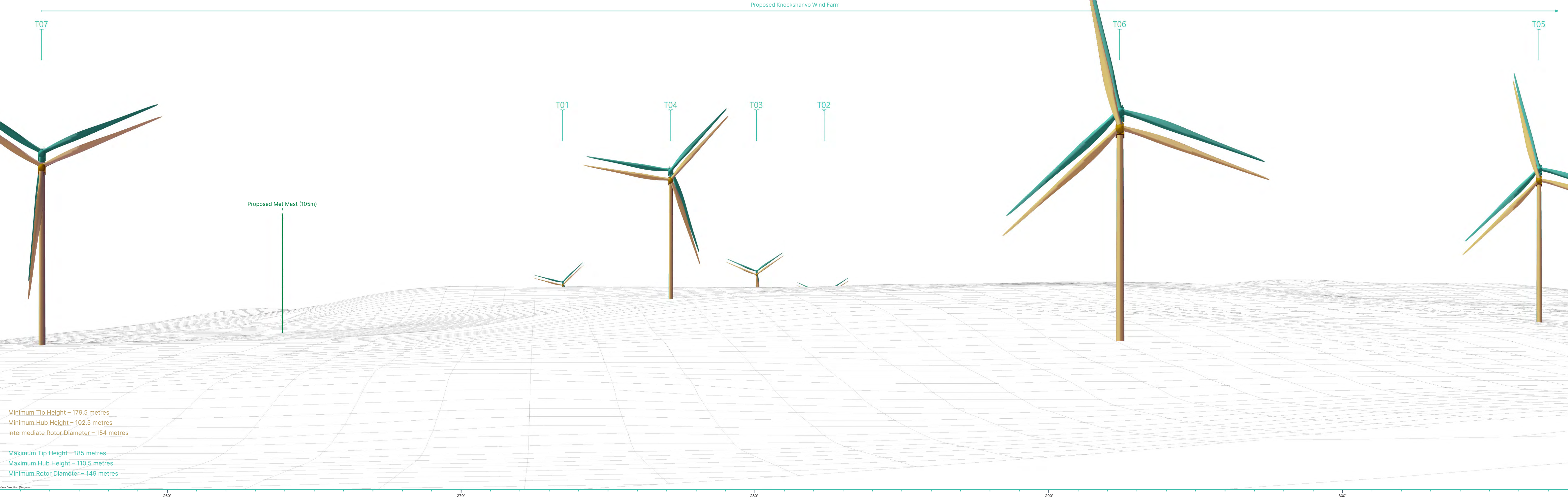














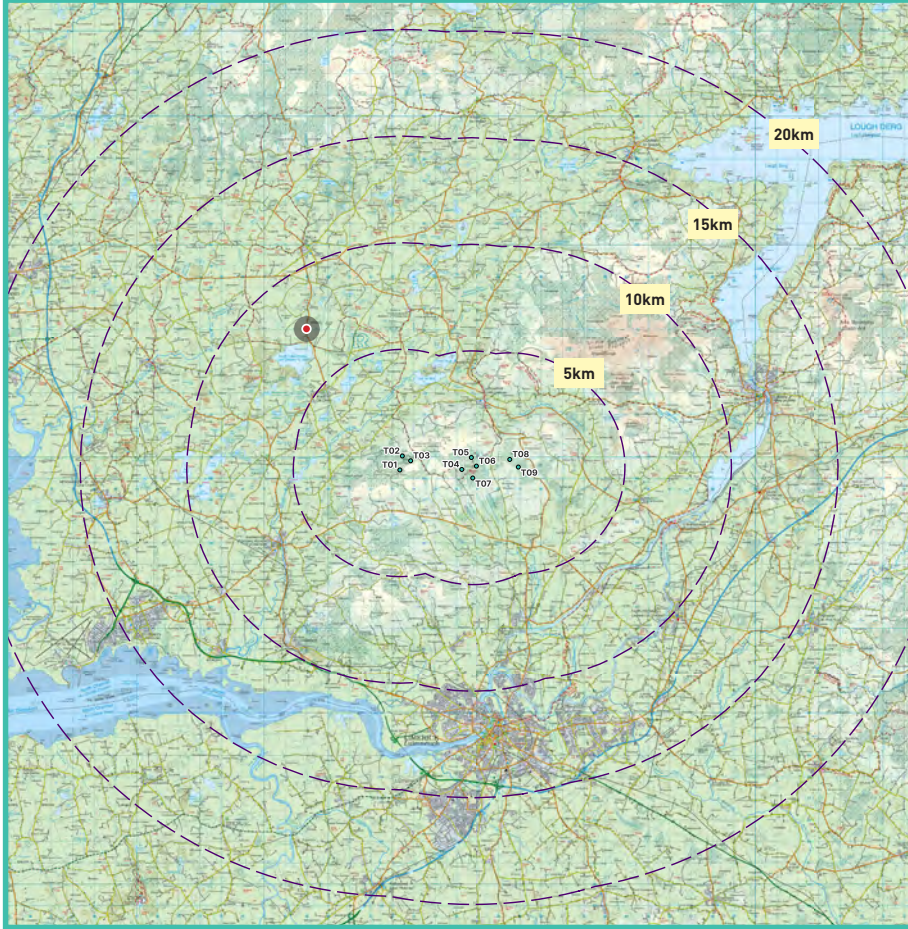




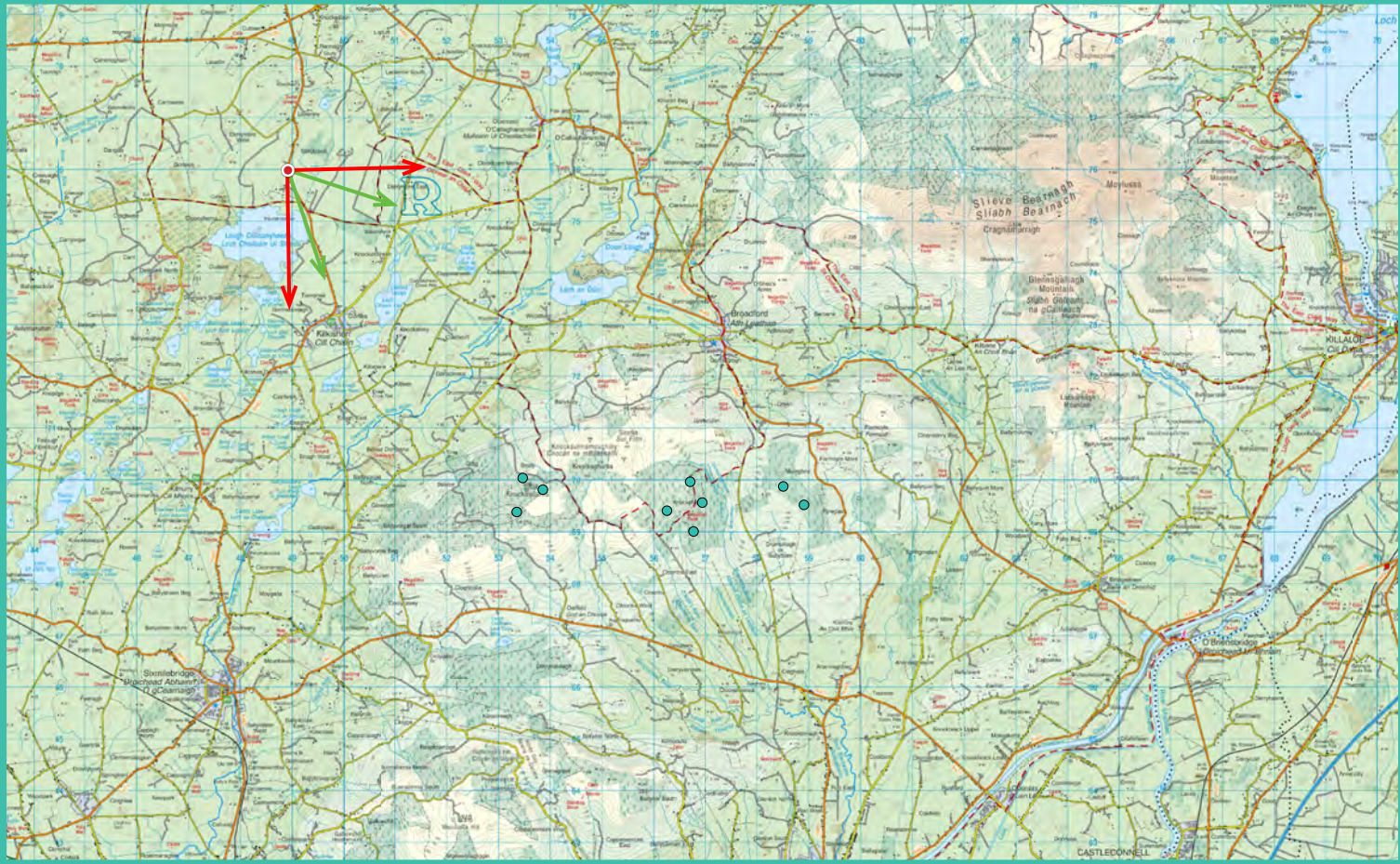
Photomontage 14

View from the townland of Ballyblood along County Clare designated Scenic Route SR-24 (CCDP 2023–2029). This viewpoint is located approximately 7.4km northwest of the nearest proposed turbine (T2).

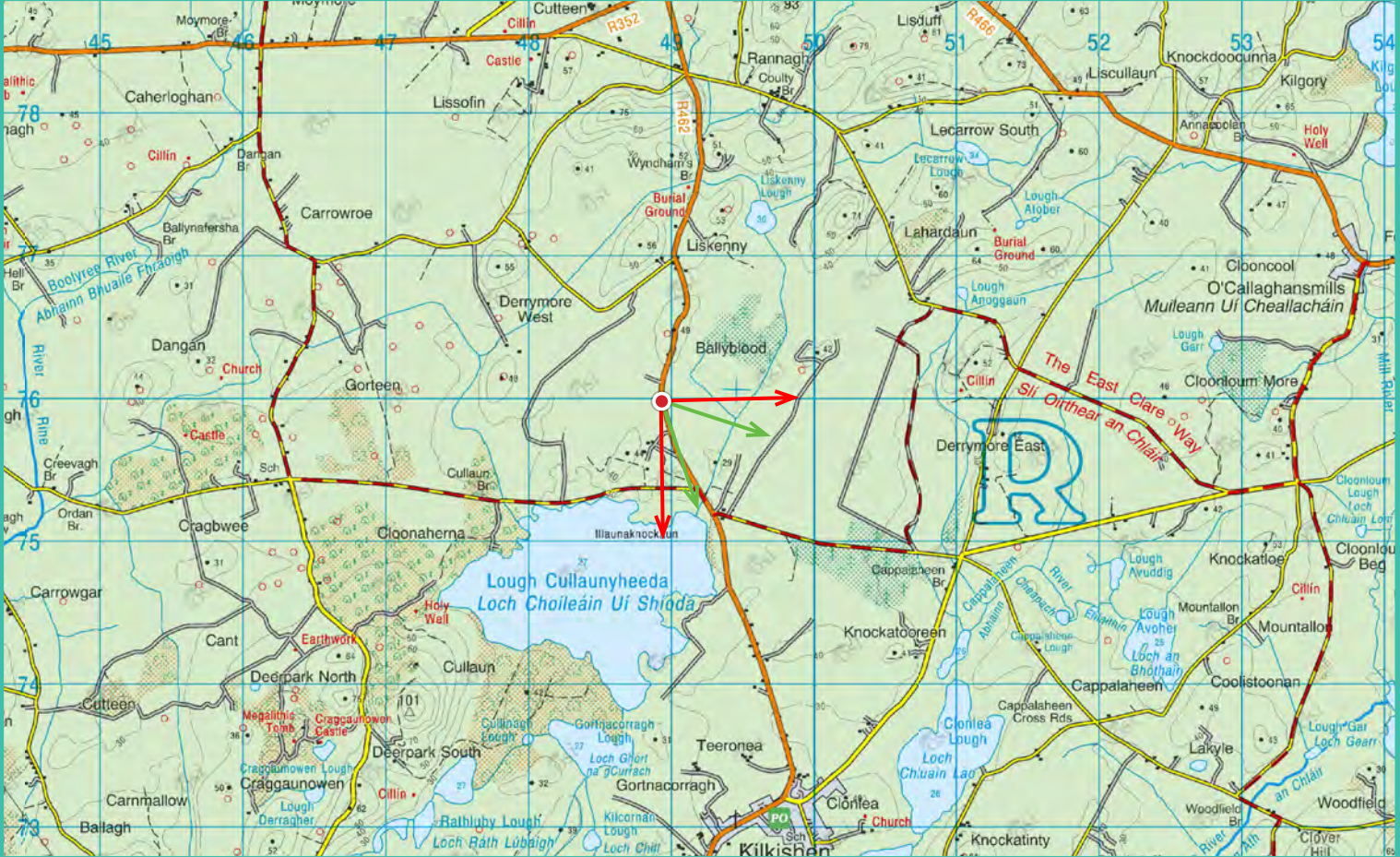
View point grid reference	E 548897    N 676025
Date of image taken	13/09/2022
Time of image taken	14:26
View point elevation	31m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	134°
Horizontal extent of proposed turbines	24°
Distance to nearest proposed turbine	7.4km (T2)
Number of proposed turbines visible	5/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.




Detail of view point location.

90° View Extent

Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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



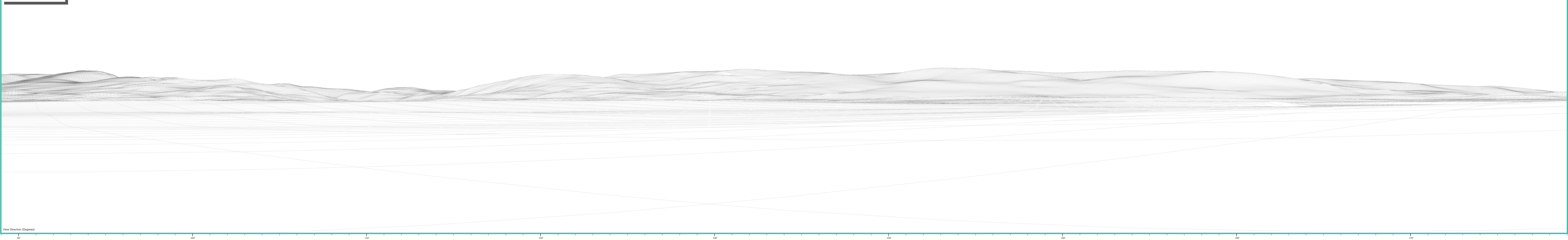
Key Image at 120°

53.5° View Extent

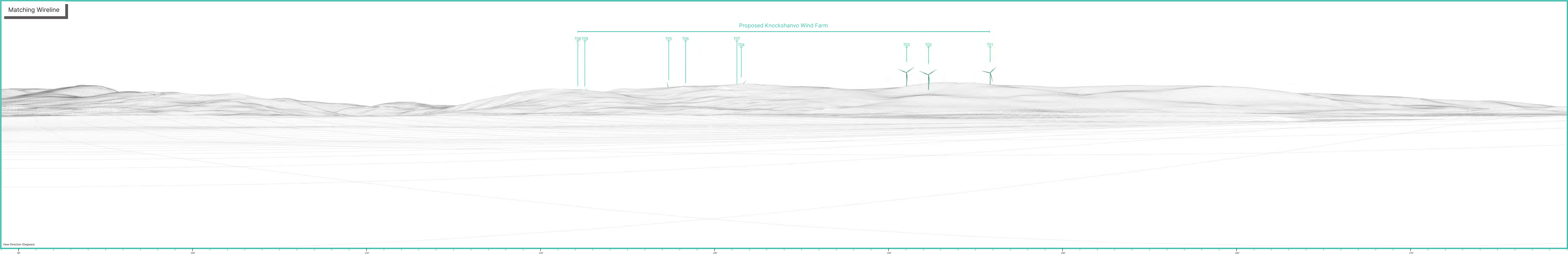




Matching Wireline



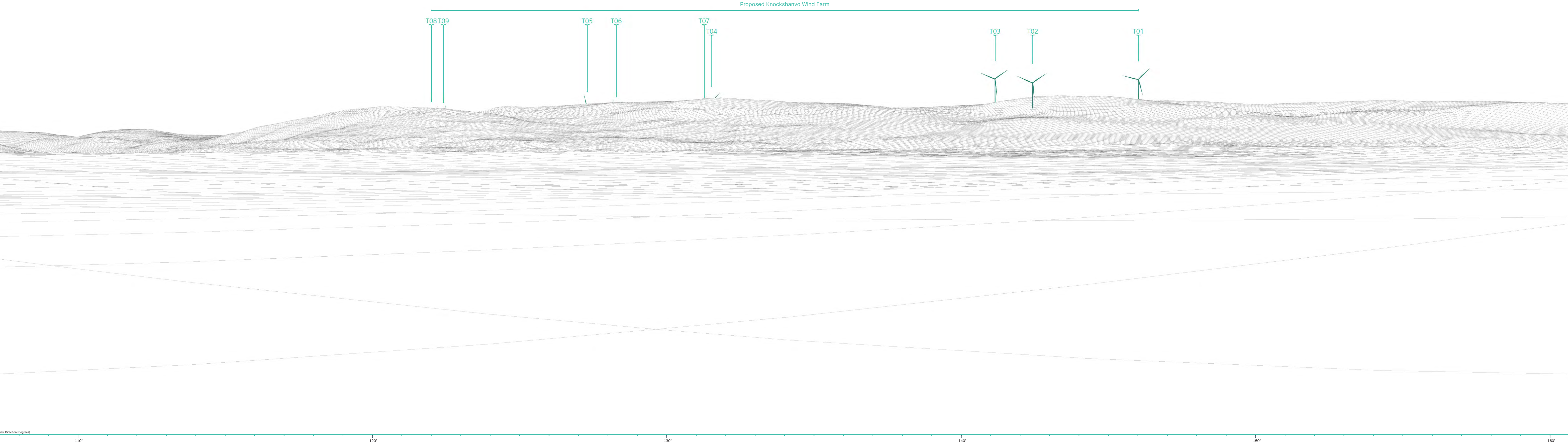








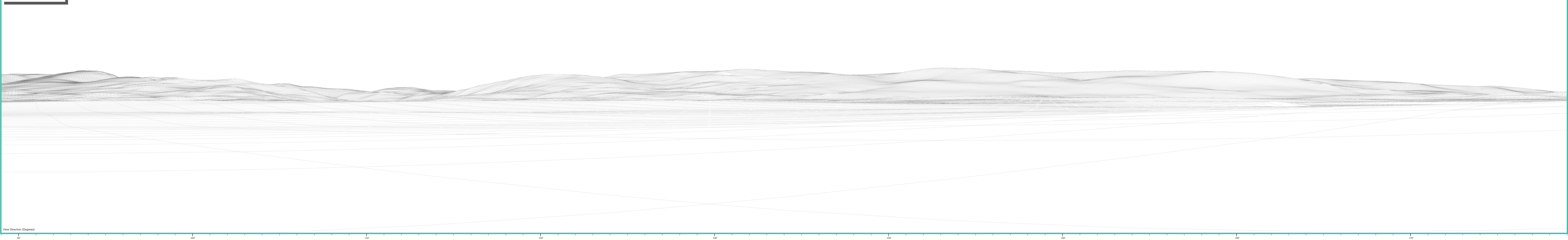




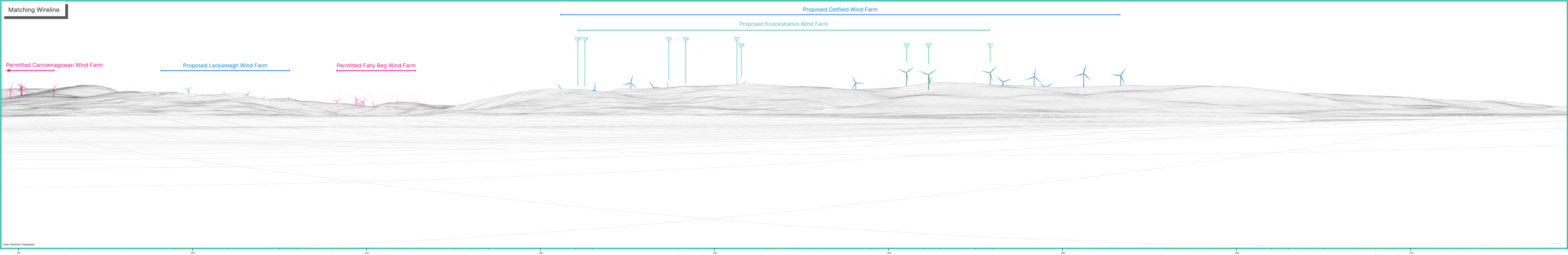




Matching Wireline



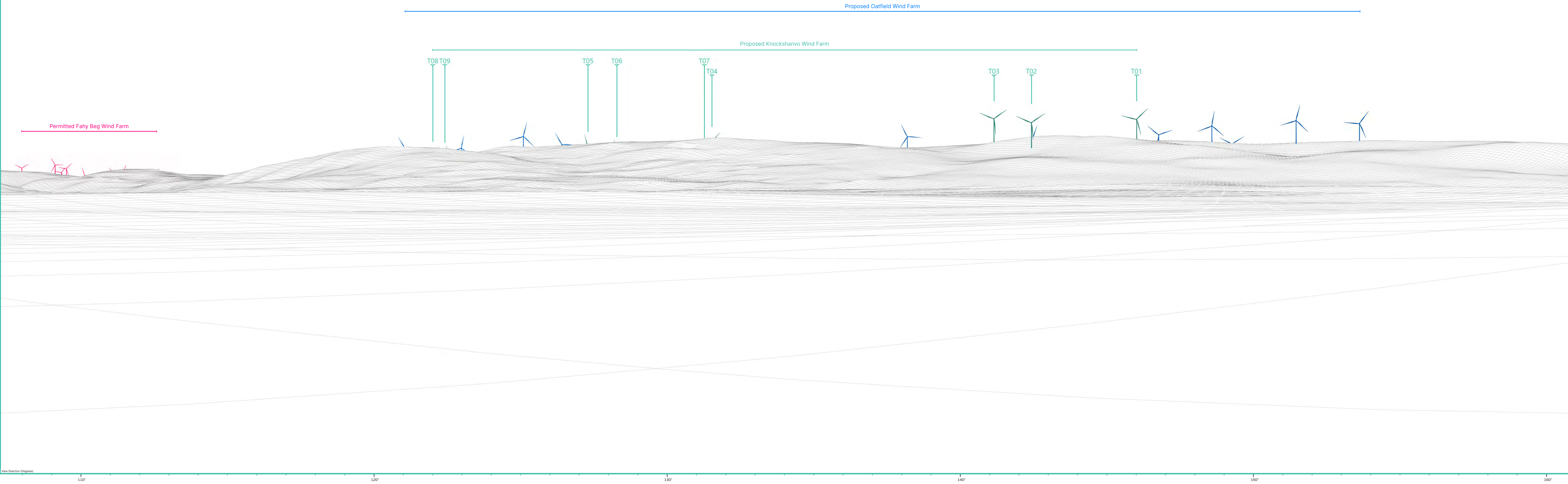














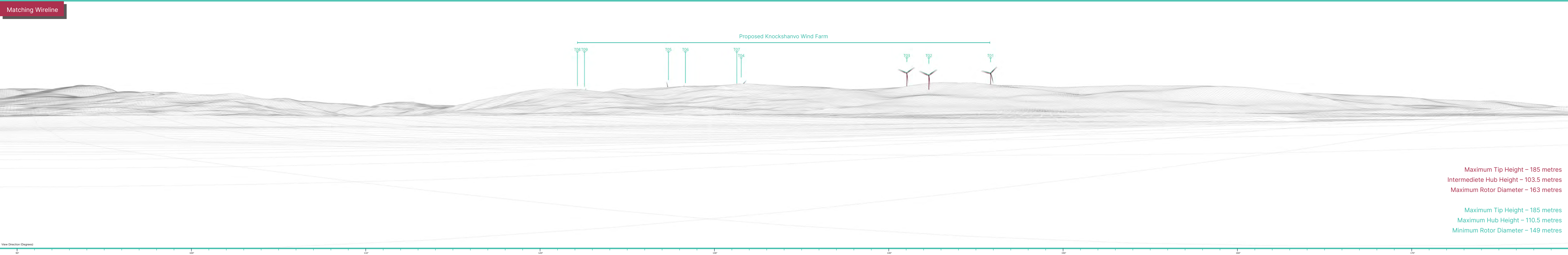


# VP14

## TURBINE ENVELOPE RANGE

Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter



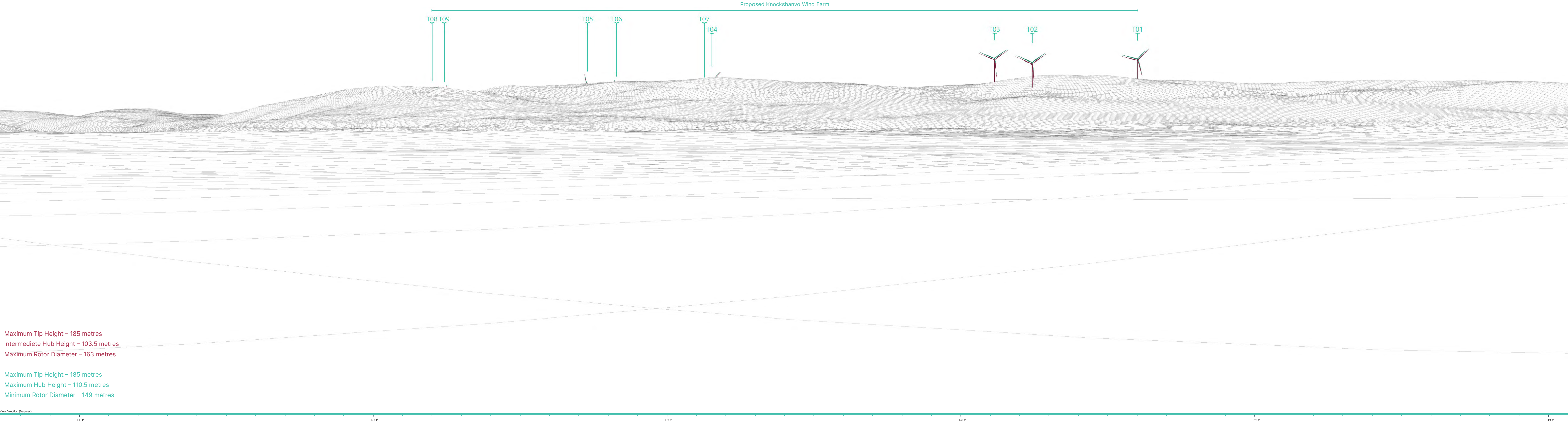




Proposed Knockshanvo at 53.5° - Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter









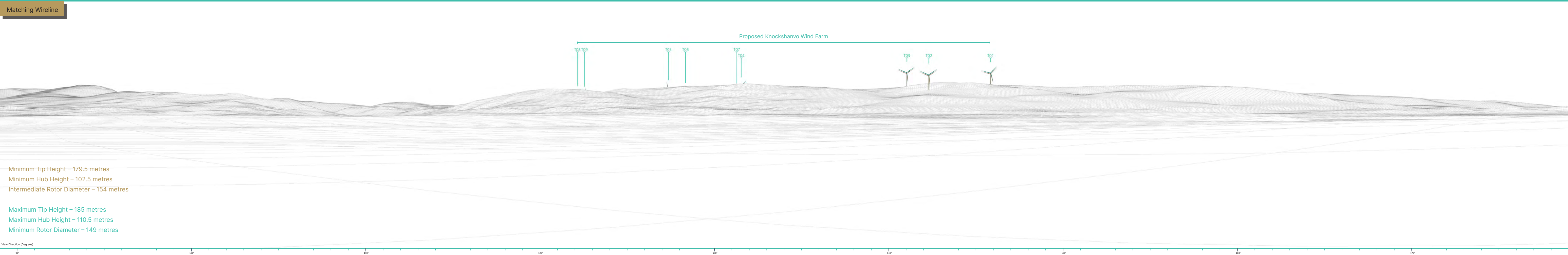


# VP14

## TURBINE ENVELOPE RANGE

Minimum Tip Height, Minimum Hub Height, Intermediate Rotor Diameter

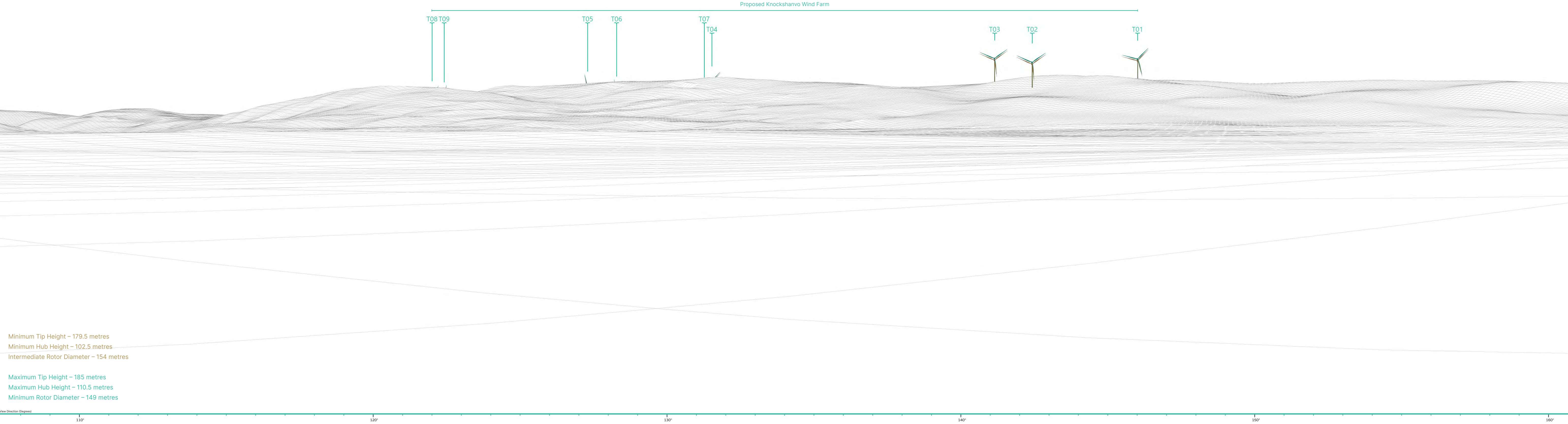














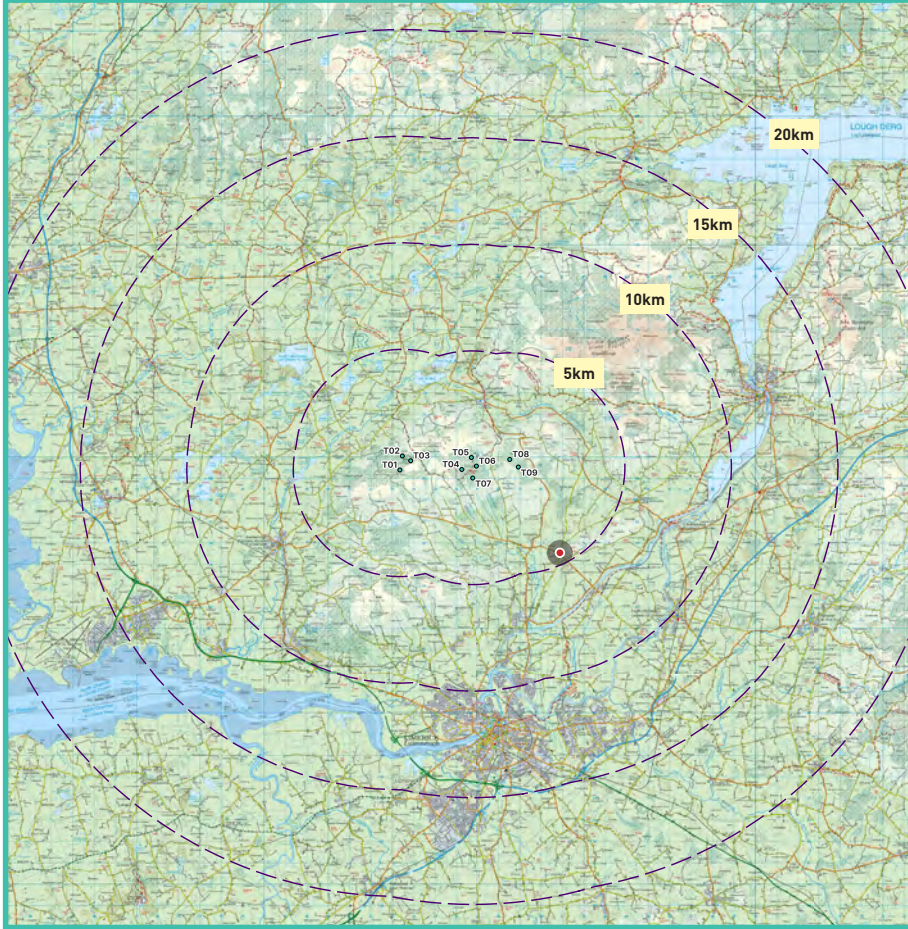




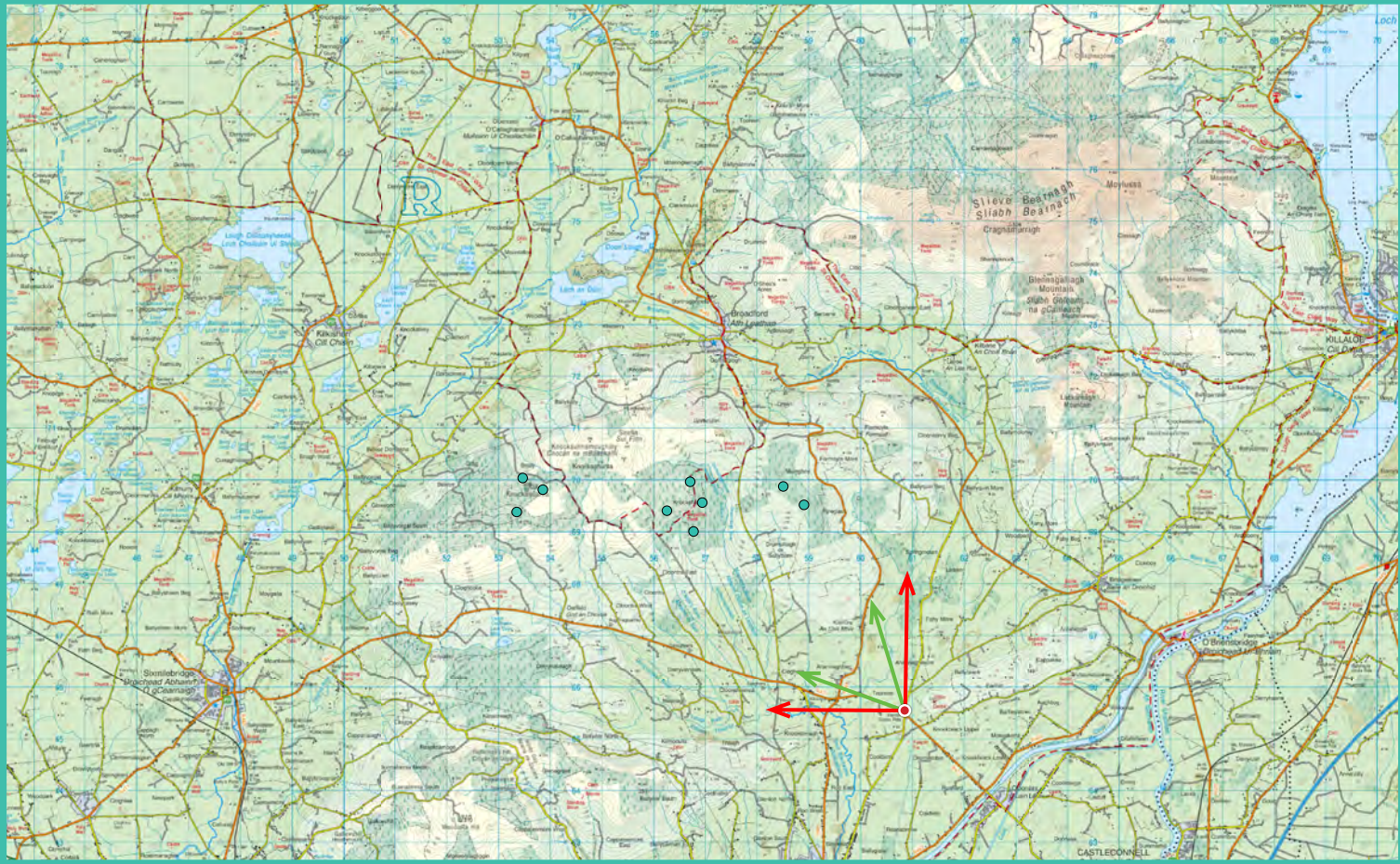
Photomontage 15

View along the R471 regional road within the townland of Tooreen. This viewpoint is approximately 4.4km southeast from the nearest proposed turbine (T9).

View point grid reference	E 560823 N 665593
Date of image taken	30/05/2023
Time of image taken	10:24
View point elevation	73m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	315°
Horizontal extent of proposed turbines	37°
Distance to nearest proposed turbine	4.4km (T9)
Number of proposed turbines visible	9/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
Map Licence	© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517



View point relative to 20km radius.



View point relative to wind farm site.




Detail of view point location.

### Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

### Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

Prepared by

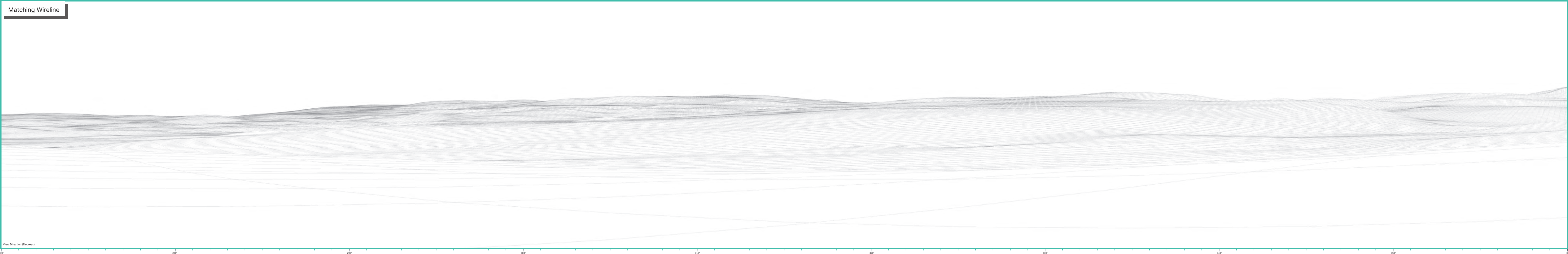
MKO  
Planning & Environmental Consultants  
Tuam Road, Galway.

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



53.5° View Extent



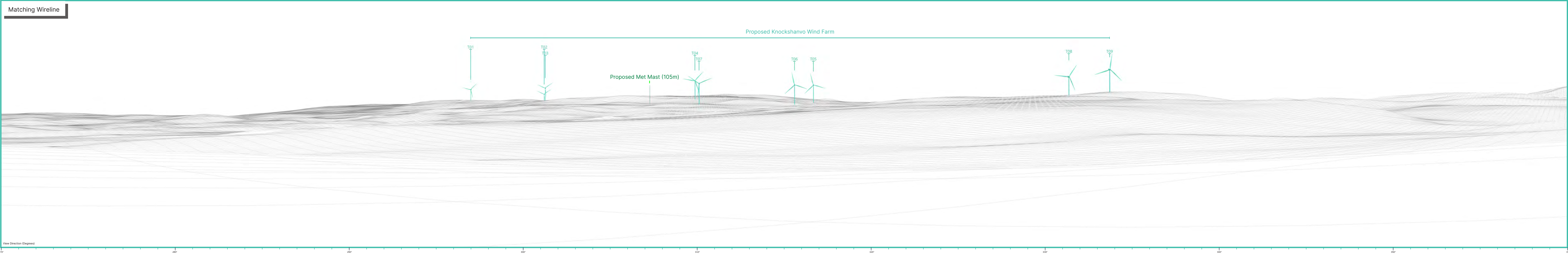




Proposed Knockshanvo at 90°



Matching Wireline







0° Included Horizontal Angle (53.5°)

26.5°

53.5°

Proposed Knockshanvo at 53.5°

View Direction (Degrees)

290°

300°

310°

320°

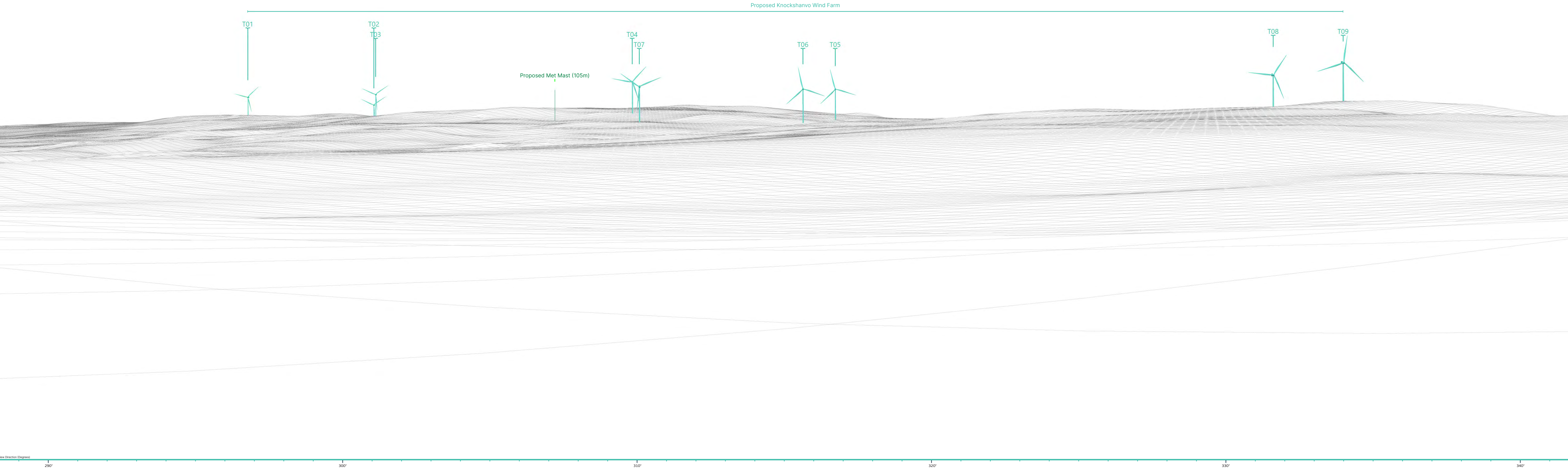
330°

340°

18.2°

8.1°





Proposed Knockshanvo Wind Farm

T01

T02

T03

T04

T07

T06

T05

Proposed Met Mast (105m)

T08

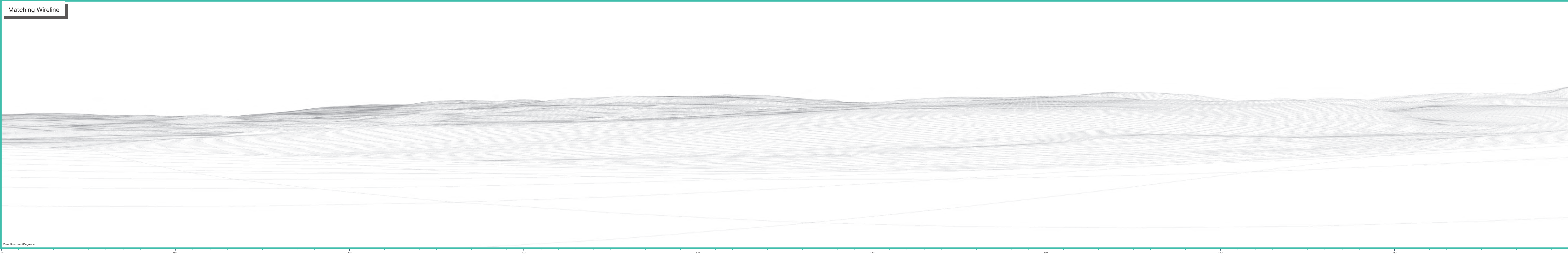
T09



Existing View at 90°



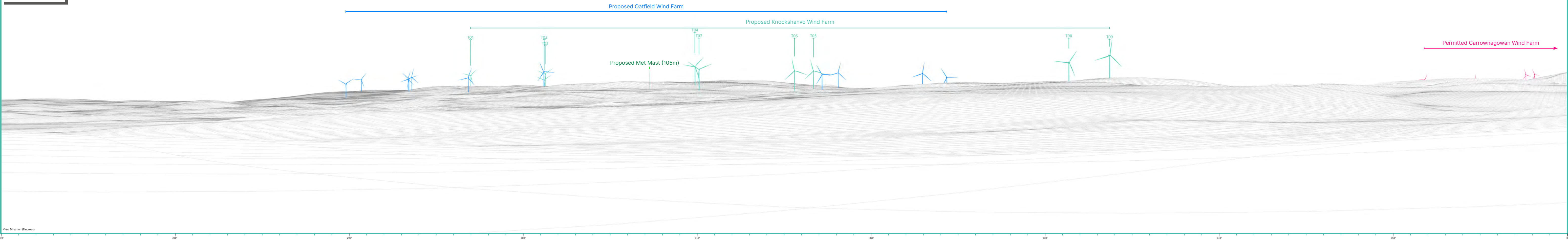
Matching Wireline







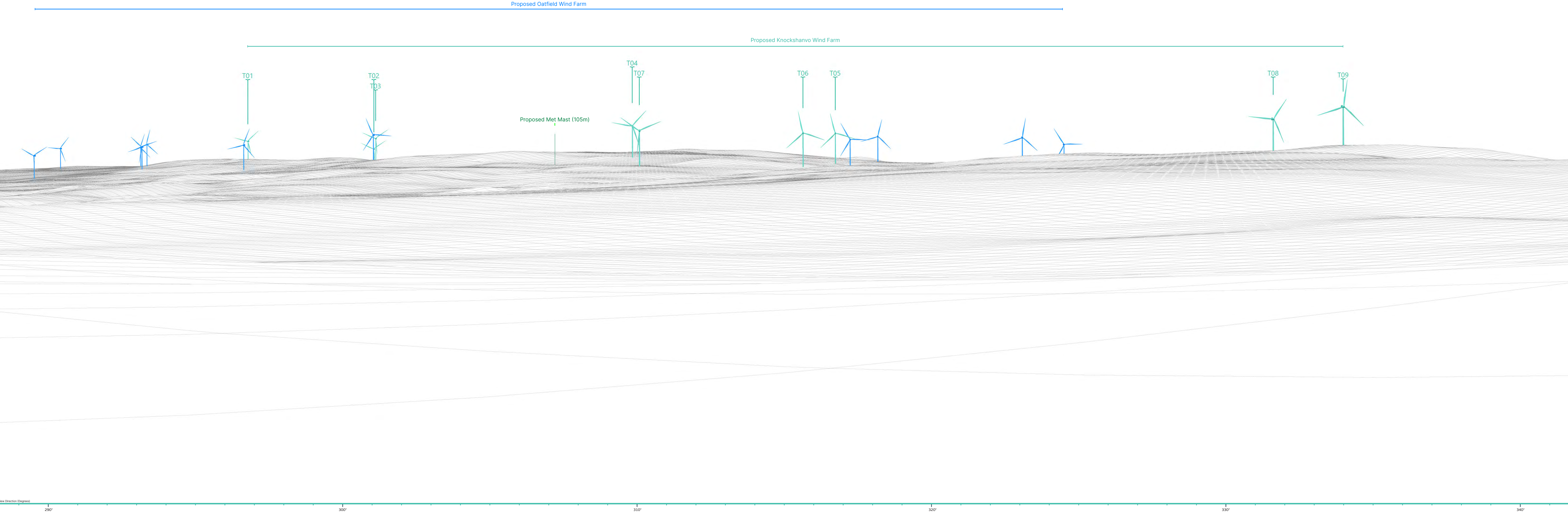
Matching Wireline













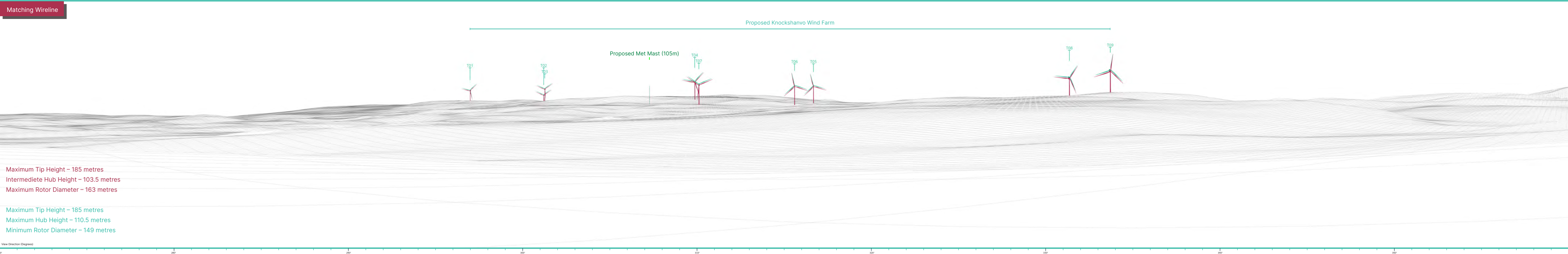


# **VP15**

# **TURBINE ENVELOPE RANGE**

Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter

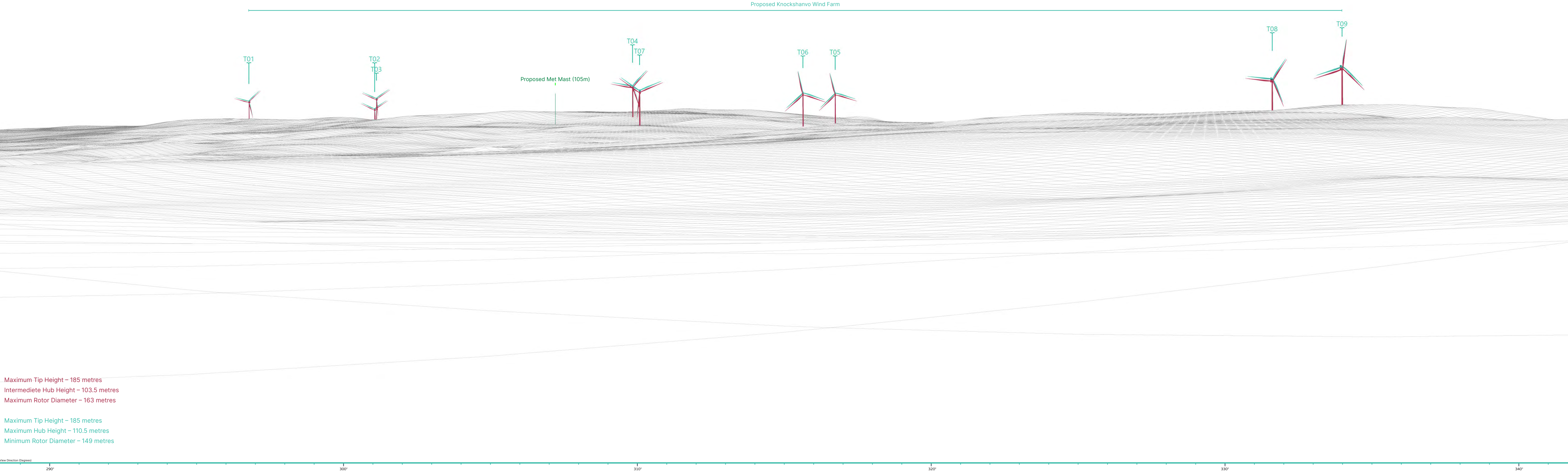














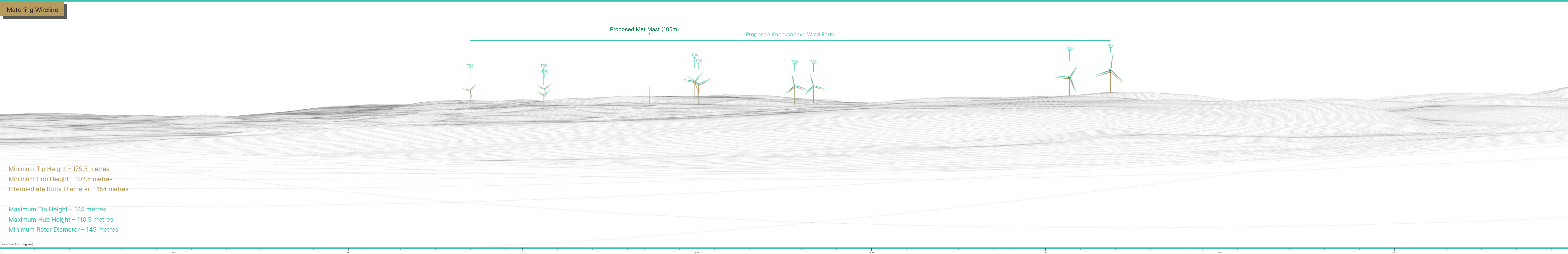


**VP15**

# **TURBINE ENVELOPE RANGE**

Minimum Tip Height, Minimum Hub Height, Intermediate Rotor Diameter

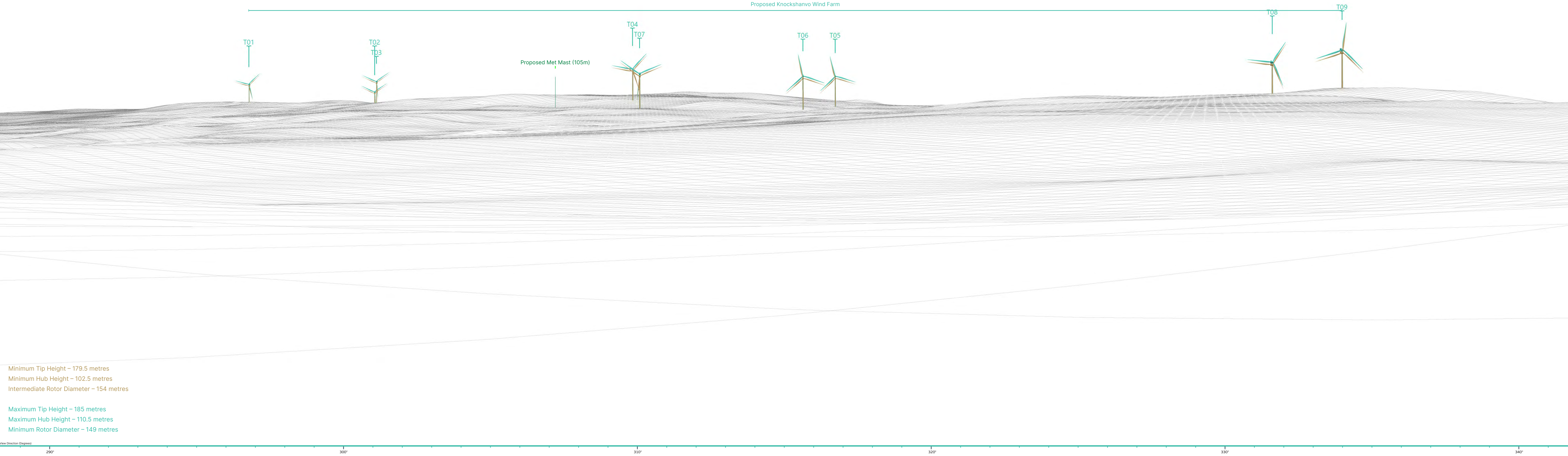


















View Point

16

Belvoir

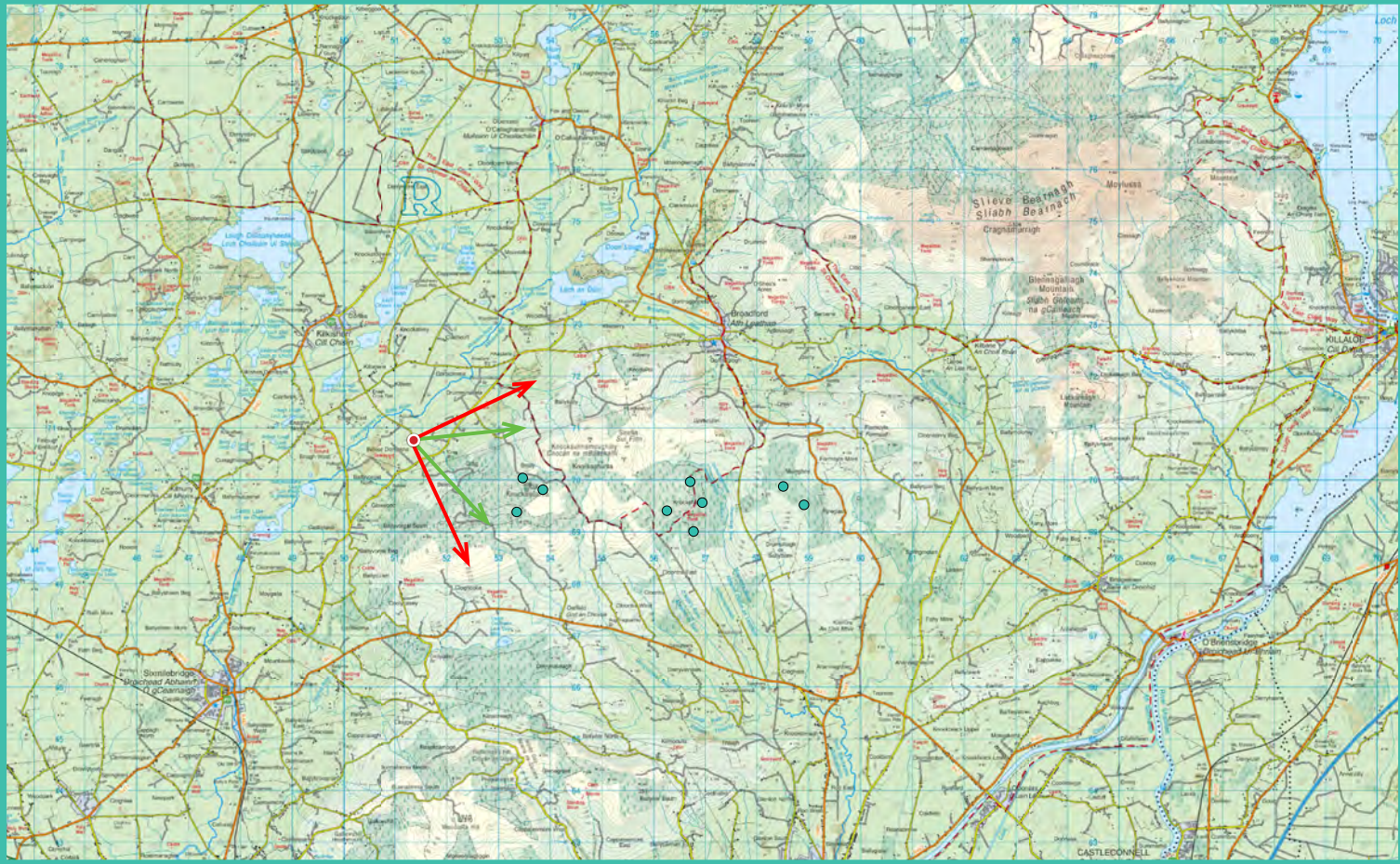
Photomontage 16

View from a local road in the townland of Belvoir. This viewpoint is located approximately 2.2km west from the nearest proposed turbine (T2).

View point grid reference	E 551290 N 670817
Date of image taken	13/09/2022
Time of image taken	13:10
View point elevation	37m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	110°
Horizontal extent of proposed turbines	27°
Distance to nearest proposed turbine	2.2km (T2)
Number of proposed turbines visible	3/9
Turbine Hub Height	110.5m
Turbine Tip Height	185m
Turbine Rotor Diameter	149m
Montage Type	Type 4* Photomontage / Photowire / Survey / Scale Verifiable
Camera & Lens	Canon 5D Mark III / Full Frame Sensor with a 50mm Lens
Tripod	Manfrotto 190X extended to approx 1.5m.
Guidance	* Visual Representation of Development Proposals, Landscape Institute Technical Guidance Note 06/19, 2019
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View point relative to 20km radius.



View point relative to wind farm site.




Detail of view point location.

Map Legend

Area shown in 90° view  Area shown in 53.5° view 

View Point 

Proposed Knockshanvo Turbines 

Wireline Legend

Proposed Knockshanvo Wind Farm

Proposed Met Mast (105m)

Existing Wind Farms

Permitted Wind Farms

Other Proposed Wind Farms

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

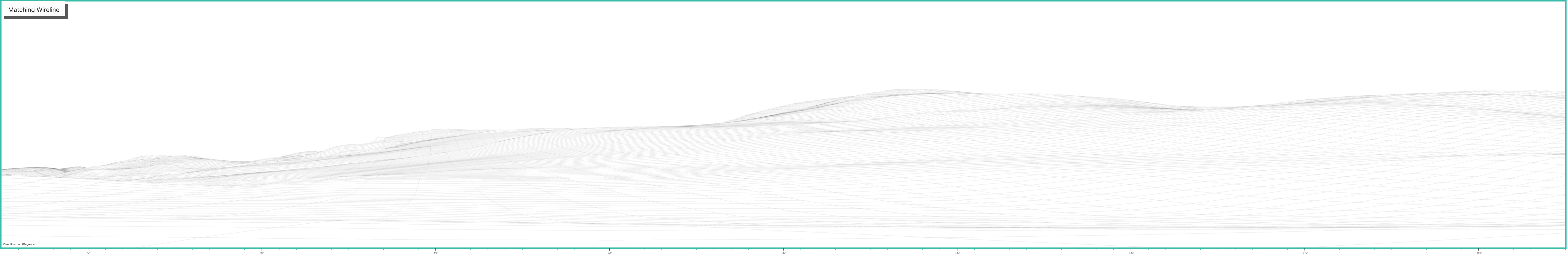
53.5° View Extent



Existing View at 90°



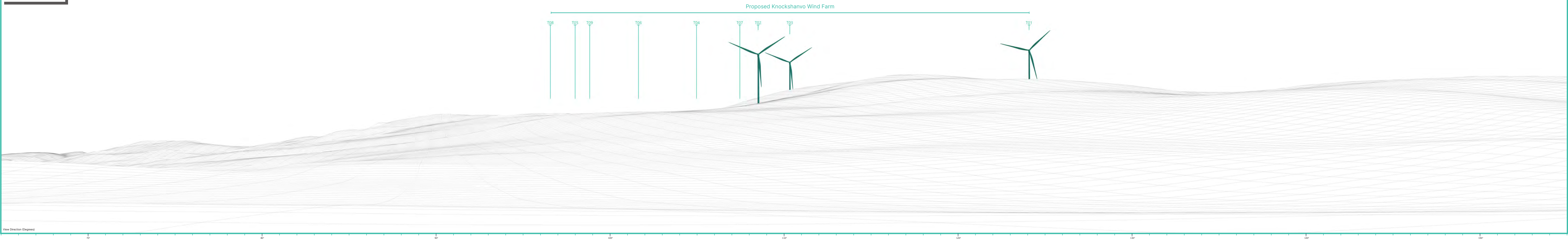
Matching Wireline







Matching Wireline

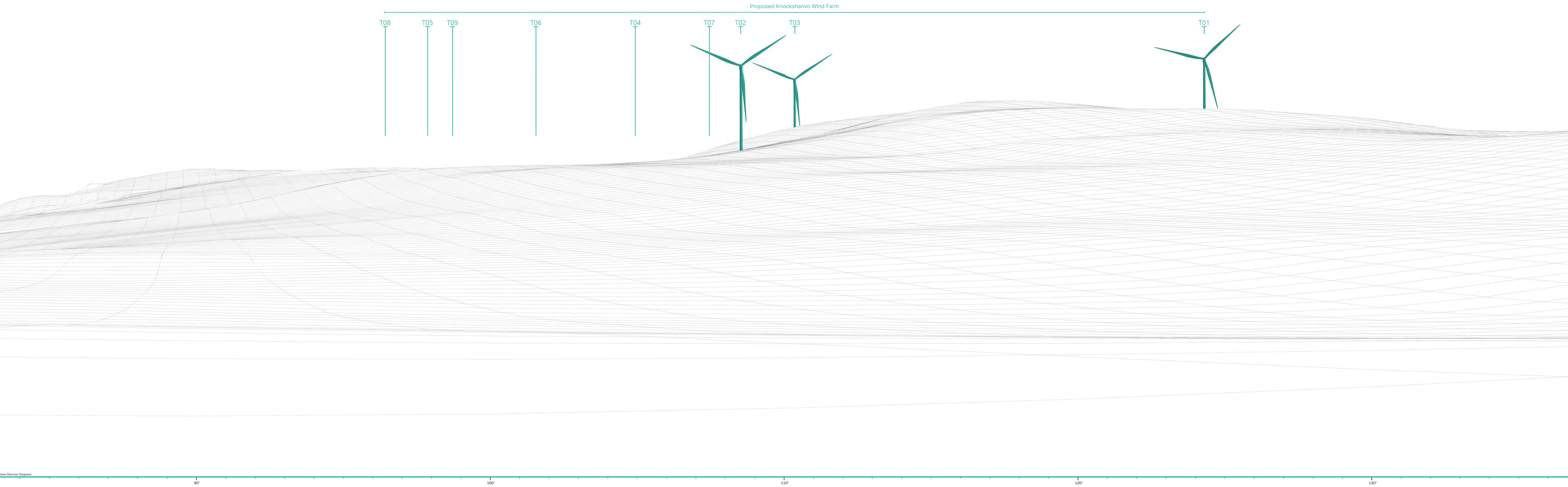




Proposed Knockshanvo at 53.5°



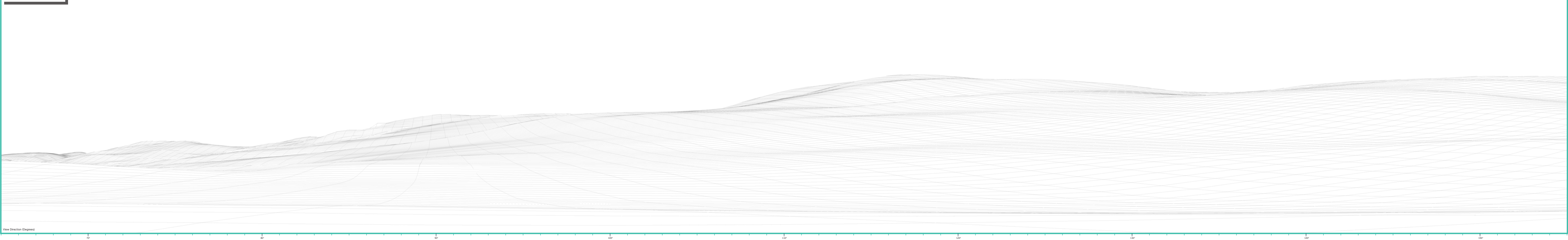








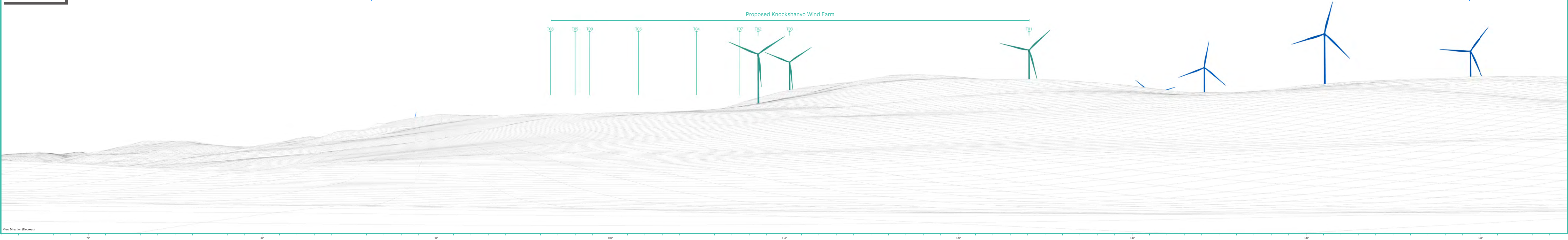
Matching Wireline







Matching Wireline





Proposed with Cumulative at 53.5°





Proposed Oatfield Wind Farm

Proposed Knockshanvo Wind Farm

T08

T05

T09

T06

T04

T07

T02

T03

T01





# VP16

# TURBINE ENVELOPE RANGE

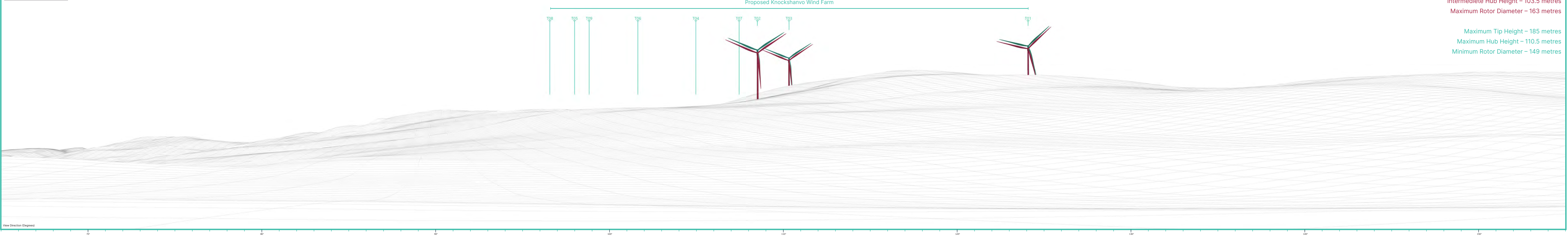
Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter



Proposed Knockshanvo at 90° - Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter



Matching Wireline





Proposed Knockshanvo at 53.5° - Maximum Tip Height, Intermediate Hub Height, Maximum Rotor Diameter





Matching Wireline

Maximum Tip Height – 185 metres  
Intermediate Hub Height – 103.5 metres  
Maximum Rotor Diameter – 163 metres

Maximum Tip Height – 185 metres  
Maximum Hub Height – 110.5 metres  
Minimum Rotor Diameter – 149 metres

Proposed Knockshanvo Wind Farm

T08

T05

T09

T06

T04

T07

T02

T03

T01

View Direction (Degrees)

90°

100°

110°

120°

130°

0° Included Vertical Angle (18.2°)

8.1°

18.2°



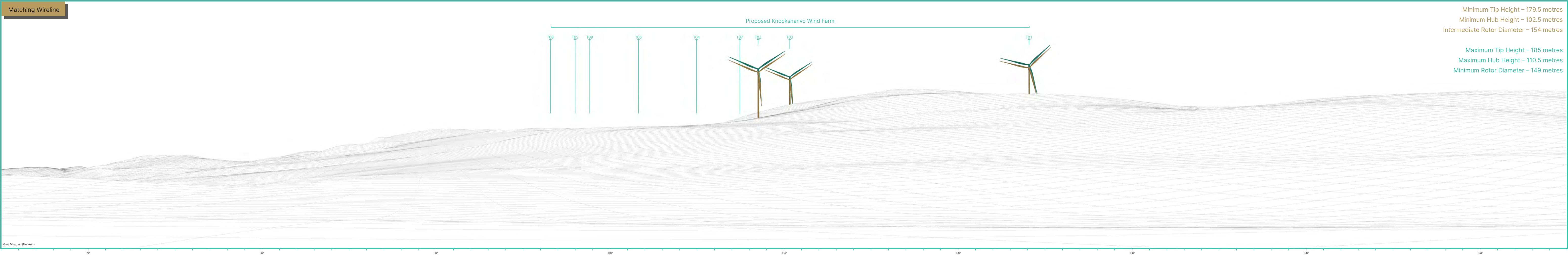


# VP16

## TURBINE ENVELOPE RANGE

Minimum Tip Height, Minimum Hub Height, Intermediate Rotor Diameter











Minimum Tip Height – 179.5 metres  
Minimum Hub Height – 102.5 metres  
Intermediate Rotor Diameter – 154 metres  
  
Maximum Tip Height – 185 metres  
Maximum Hub Height – 110.5 metres  
Minimum Rotor Diameter – 149 metres

