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Spring Brook Wind Turbine Proposal

Thomas Chappell <thomas@theenergyworkshop.co.uk>

20 July 2012 11:02

To: Matthew Woodward <matthewwoodward@barnsley.gov.uk>

Cc: Dan Grierson <dan@theenergyworkshop.co.uk>, John Darwin <darwin539@btinternet.com>

Dear Matthew,

Further to our meeting on 20th June to discuss a potential application for 2 or 3 wind turbines at Spring Brook, located on the site of the previous Sheephouse Heights Wind Farm proposal, please follow the link to download some of the additional information we discussed:

<http://mbf.me/bfZ4u>

[Let me know if you have any problems with this]

The attached wireline diagrams illustrate two development options which we have considered, firstly our preferred option to install two turbines at 101m to tip (Repower MM82, 60m hub, 82m blade diameter) and secondly a layout of two smaller turbines at 79m to tip (Enercon E48, 55m hub, 48m blade diameter). These visualisations are presented alongside the original refused Sheephouse Heights scheme, to aid comparison.

The visualisations are from previously identified viewpoints used in the assessment of the original Sheephouse Heights scheme. Copies of the original photomontages are also attached for reference alongside the wirelines. They illustrate that, in several cases (e.g. viewpoints 3, 5 and 11), the screening effects of trees and/or buildings would obscure the revised turbine layout from view.

We are currently proposing to submit a planning application based on the two 101m(to tip) height turbines on the basis that the difference in visual impact between 79m and 101m to tip is modest, but the difference in electrical output, and therefore the contribution of the proposal to local and national renewable energy targets, would be disproportionately lower for the smaller turbines. A scheme consisting of two Repower MM82s at 101m to tip would have a total installed capacity of 4MW and would generate around 10,720,MWh per year (equivalent to the yearly demands of around 2,280 homes) whereas two Enercon E48 turbines at 79m to tip would have a total installed capacity of 1.6MW and would generate 4,320MWh per year (equivalent to the yearly demands of around 920 homes) i.e. less than half. We would welcome your views on this.

We will be submitting a request for a formal screening opinion to the council on the above in due course.

Kind regards,

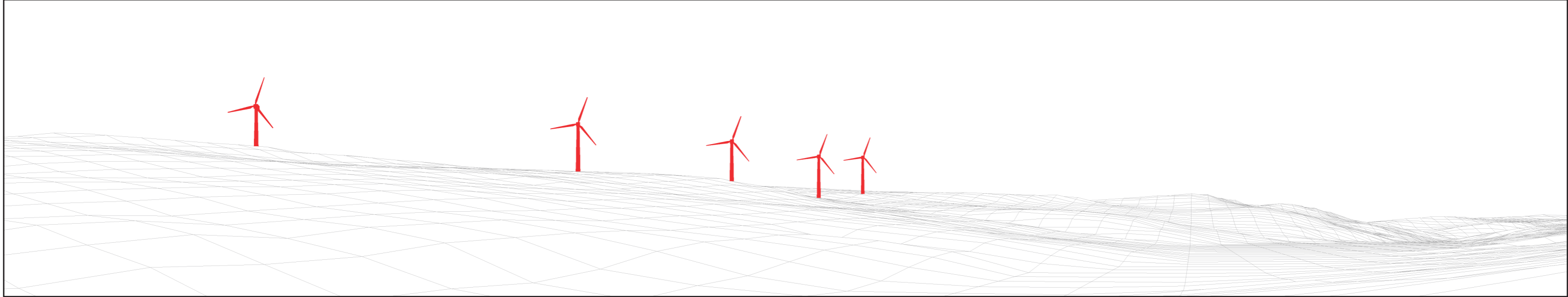
Thomas Chappell

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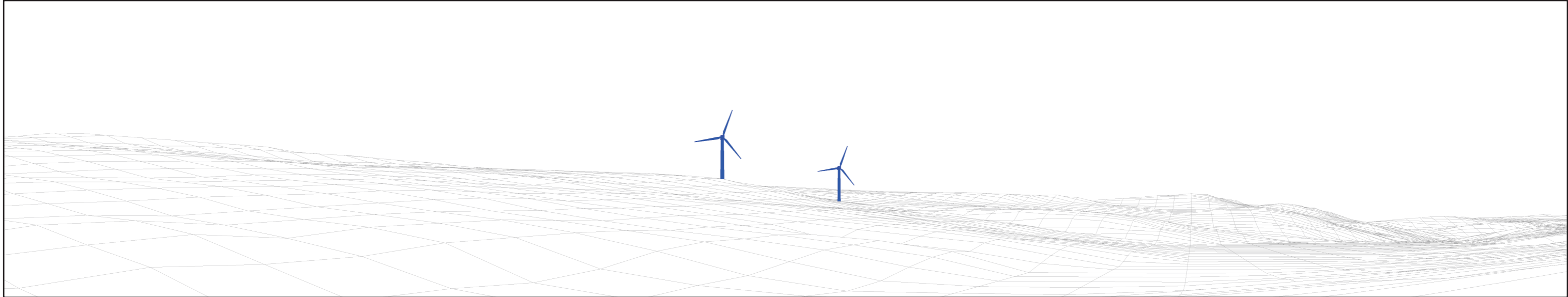
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The Energy Workshop
The Media Centre
7, Northumberland St.
Huddersfield
HD1 1RL

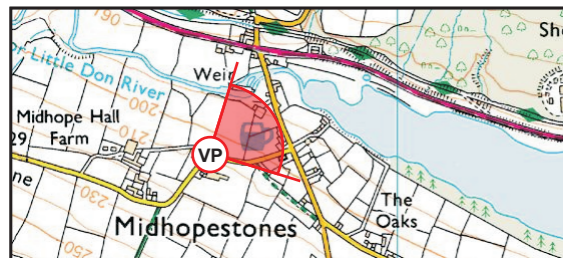
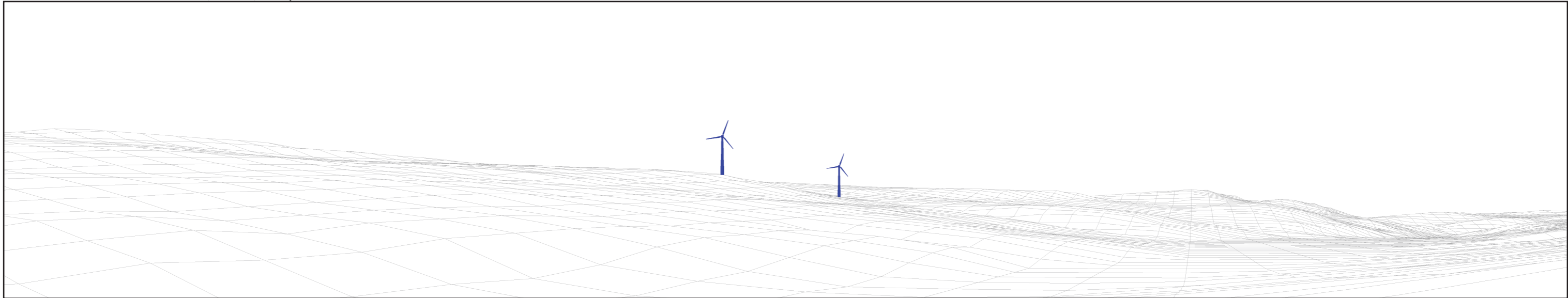
T - 01484 483112
M - 07833 461222



Wireline View - REPower MM82 - 82m Diameter, 60m Hub, 101m Tip



Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



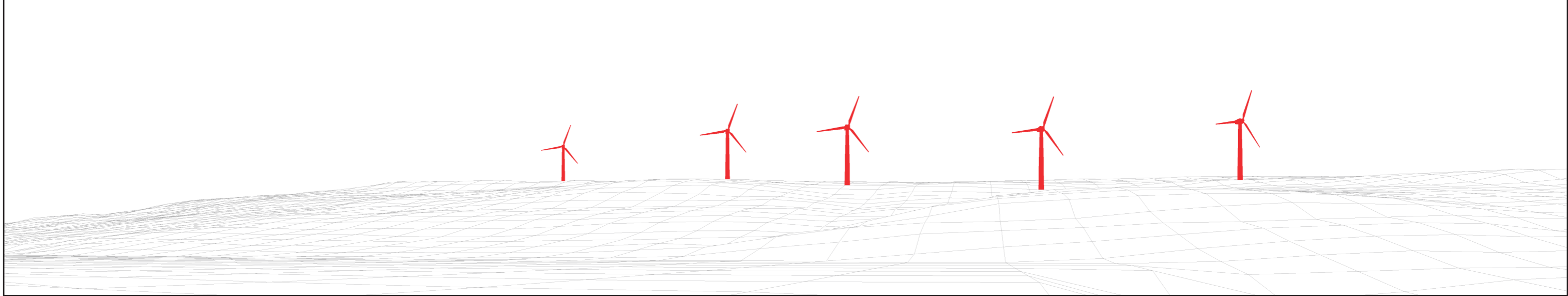
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This wireline should be viewed at approximately 255mm when printed at A3.

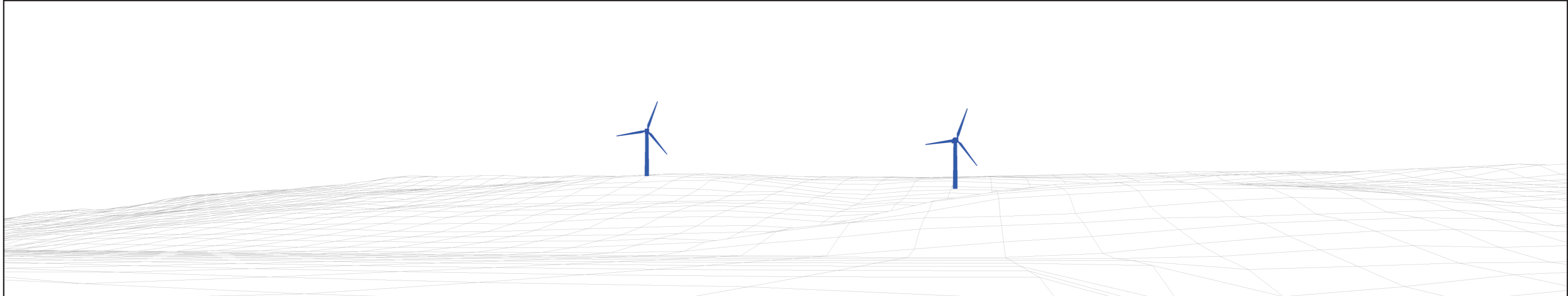
Sheephouse Heights

Viewpoint 1 - View from Midhopestones

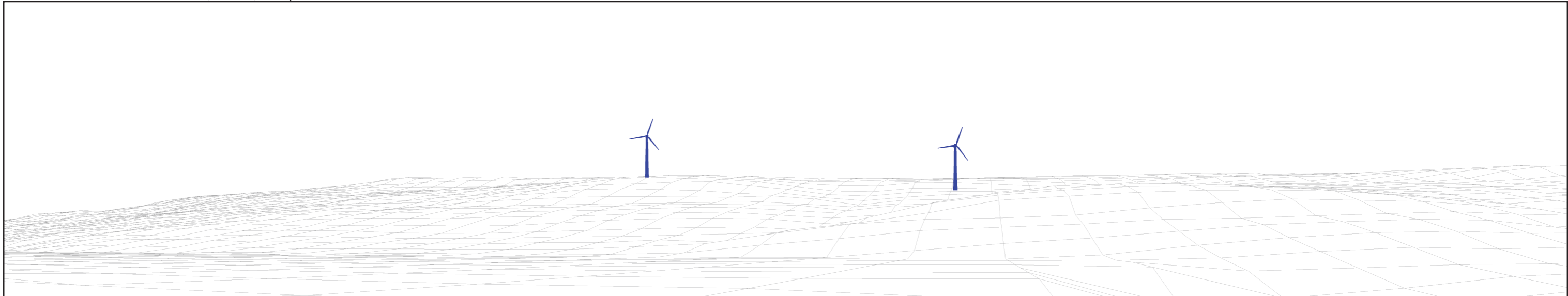




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Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



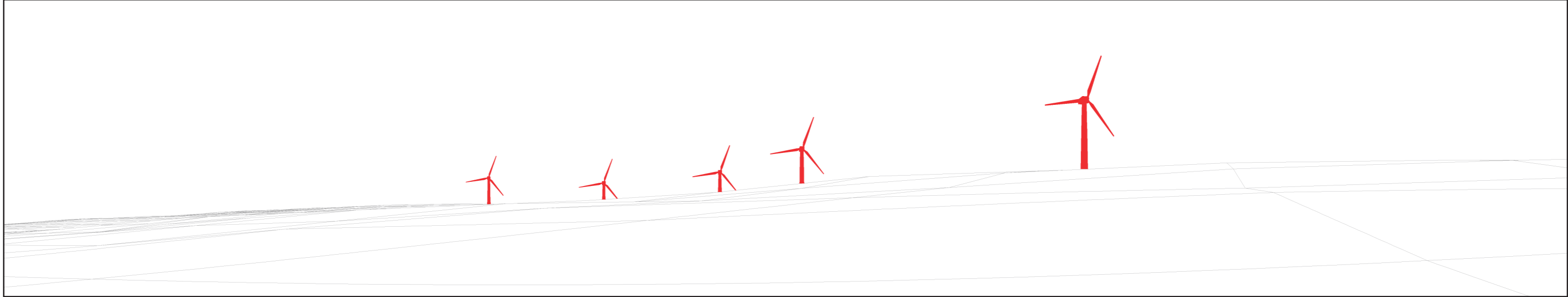
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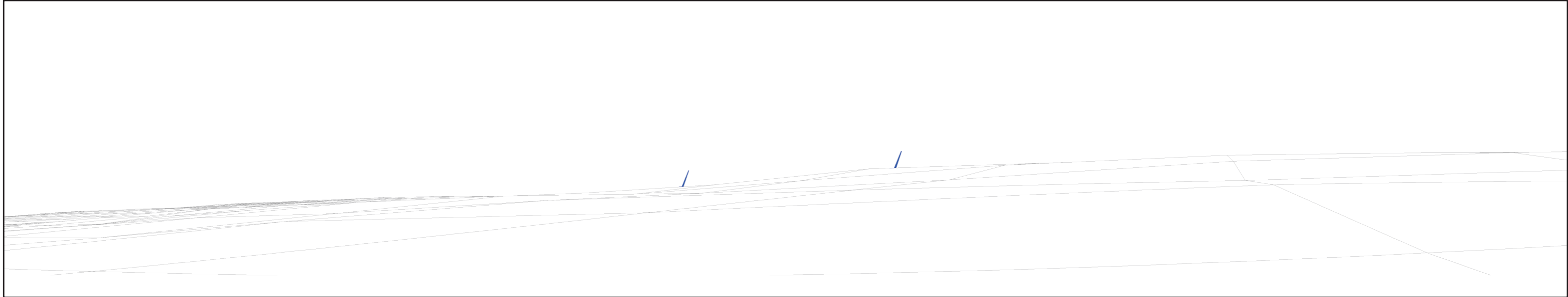
Sheephouse Heights

Viewpoint 2 - View from West Stocksbridge/
 Underbank Reservoir

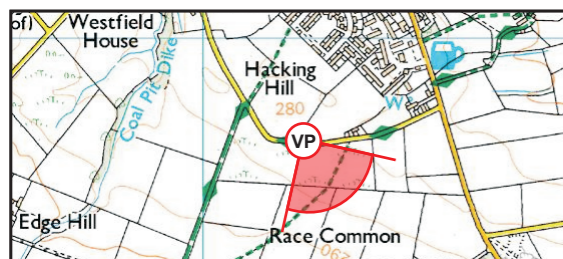
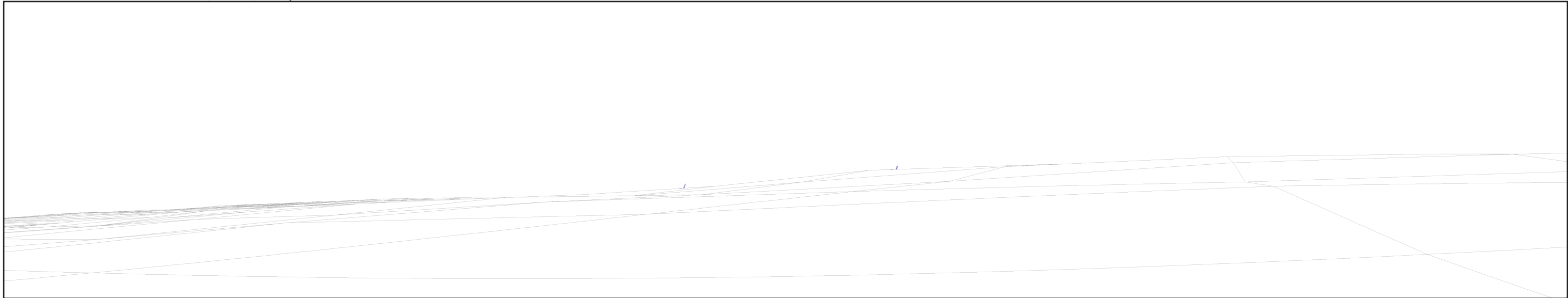




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Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



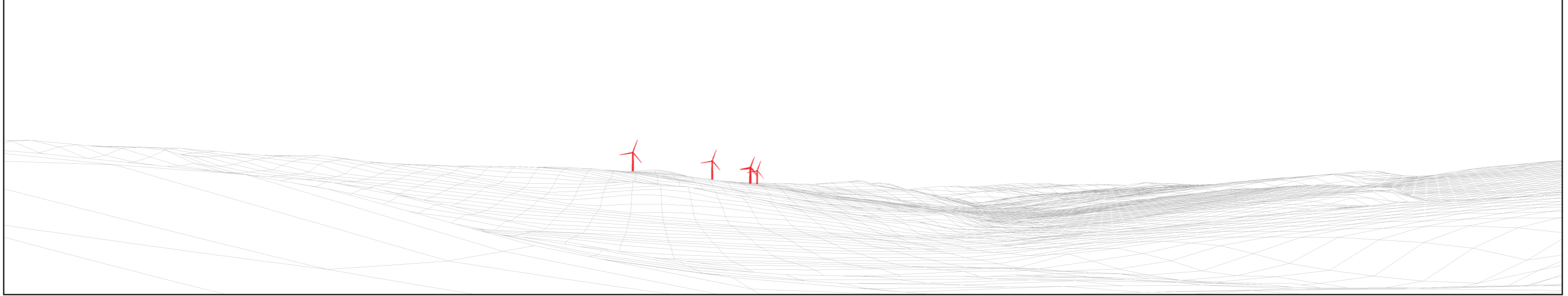
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 Camera Elevation Above Ground: 2m
 Distance to Proposed Turbines: 1.60km

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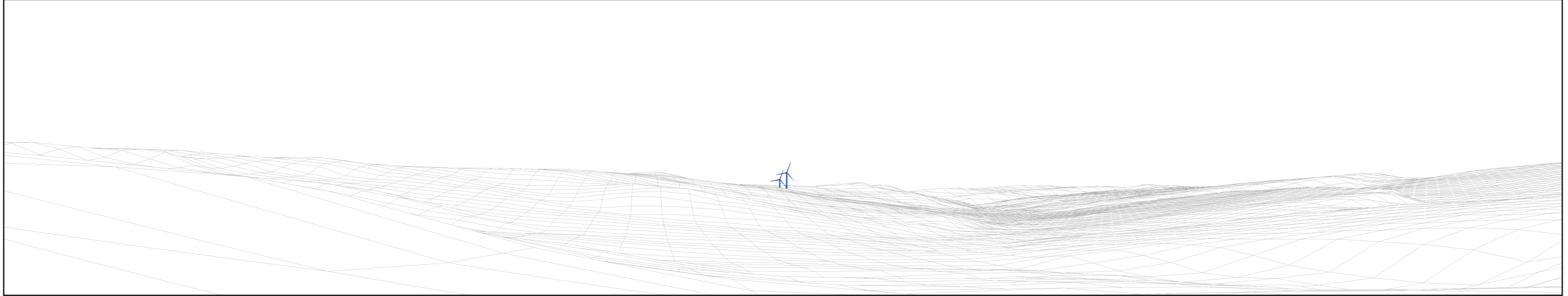
Sheephouse Heights

Viewpoint 3 - View from minor road South of Cubley

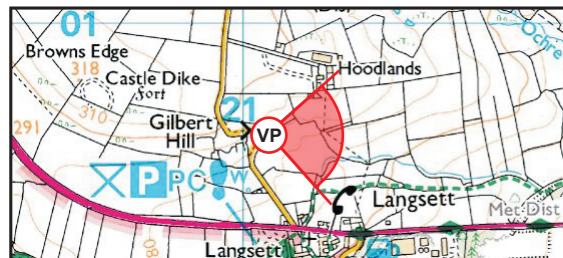
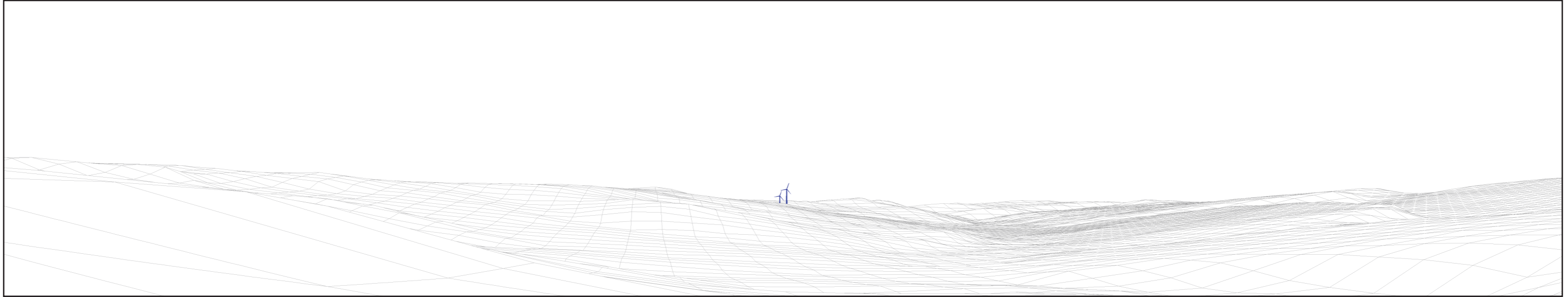




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Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



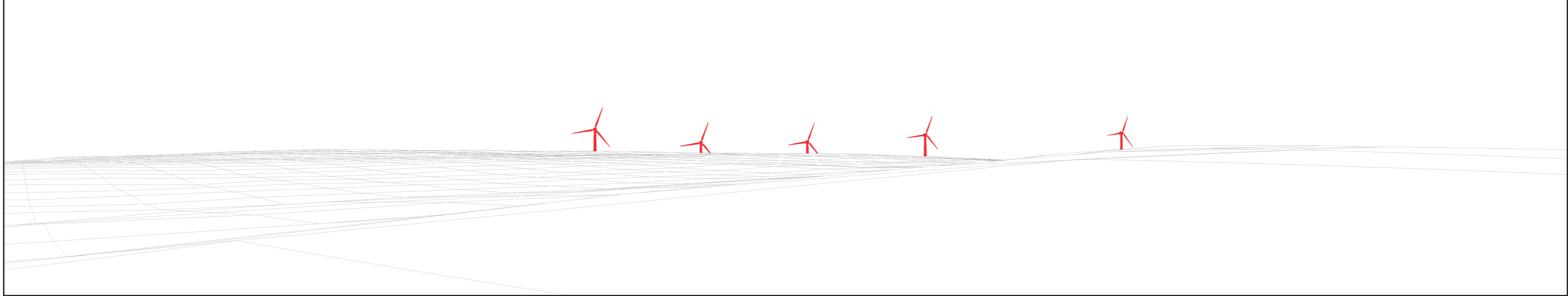
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 Camera Elevation Above Ground: 2m
 Distance to Proposed Turbines: 3.76km

This wireline should be viewed at approximately 255mm when printed at A3.

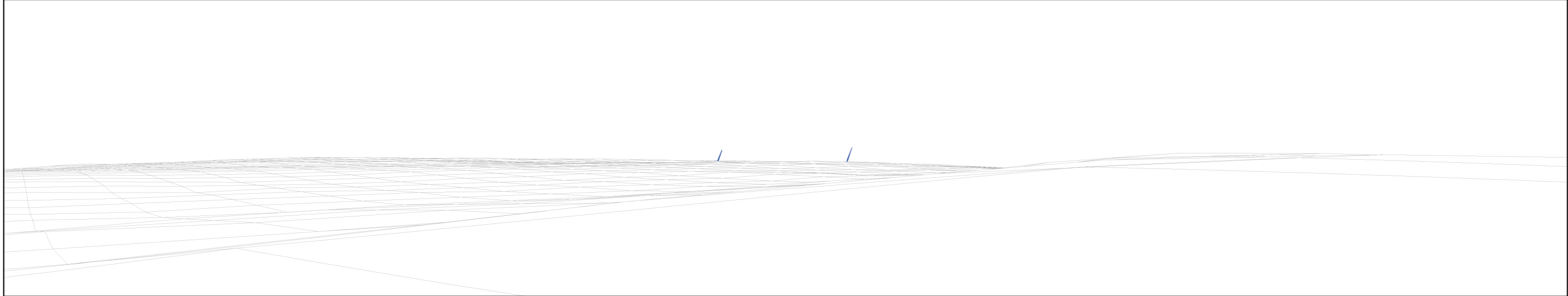
Sheephouse Heights

Viewpoint 4 - View from Gilbert Hill, Langsett

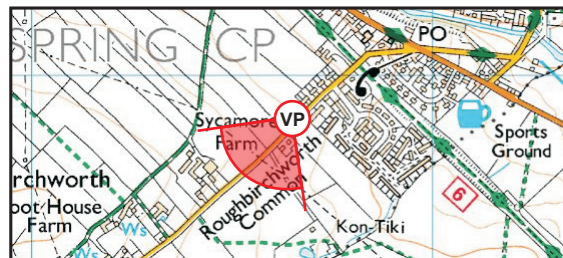
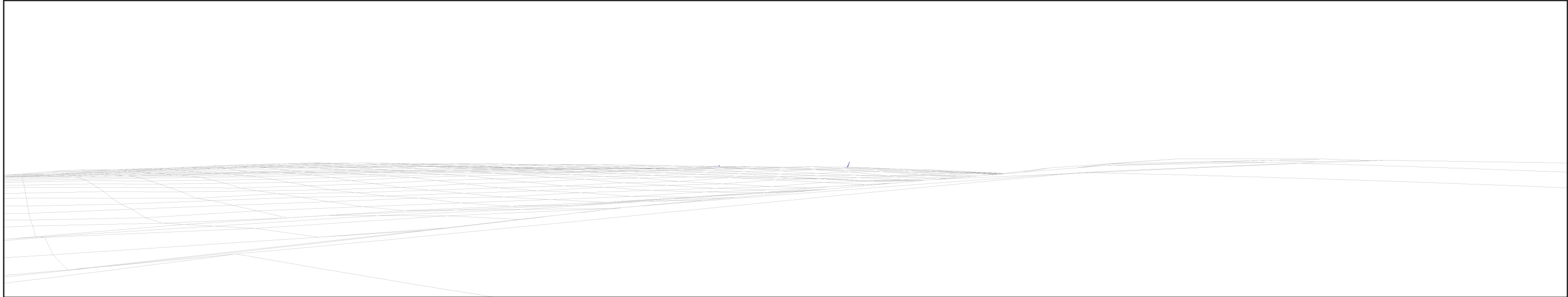




Wireline View - REPower MM82 - 82m Diameter, 60m Hub, 101m Tip



Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



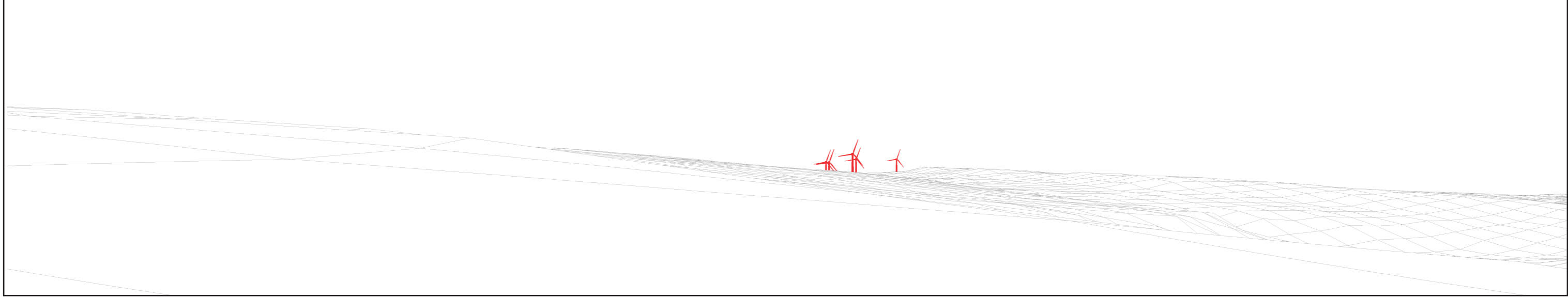
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 Camera Elevation Above Ground: 2m
 Distance to Proposed Turbines: 2.24km

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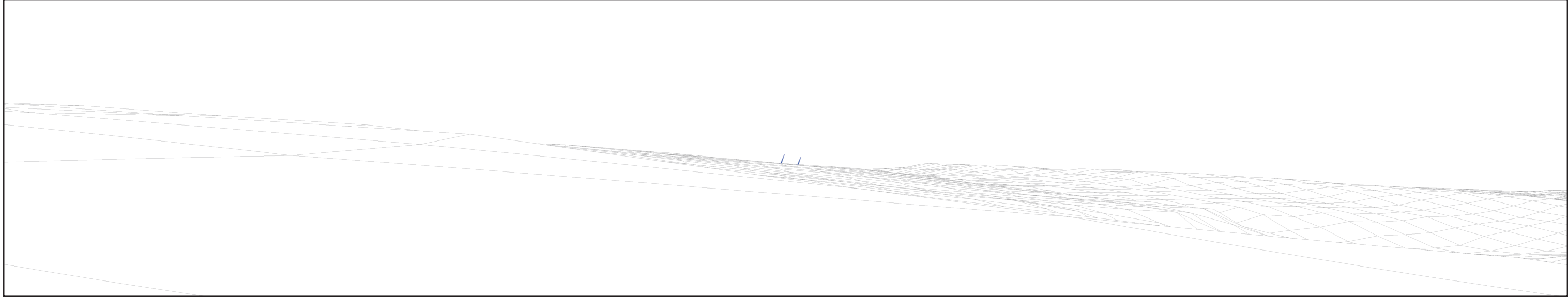
Sheephouse Heights

Viewpoint 5 - View from Oxspring

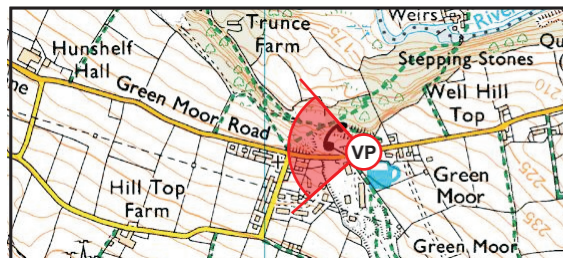
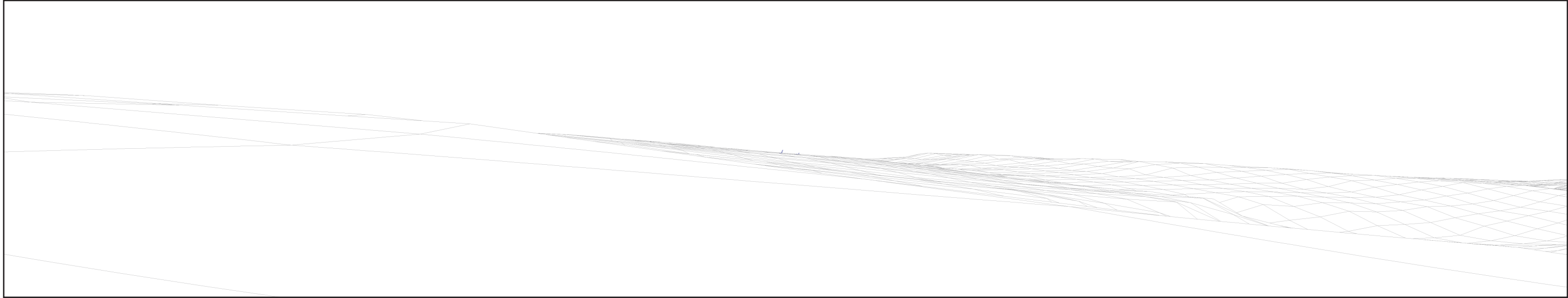




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Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



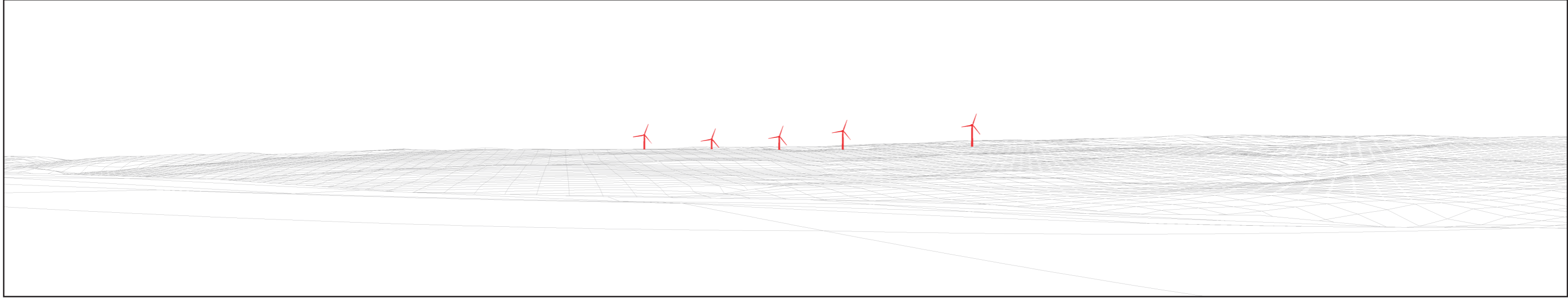
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 Camera Elevation Above Ground: 2m
 Distance to Proposed Turbines: 3.28km

This wireline should be viewed at approximately 255mm when printed at A3.

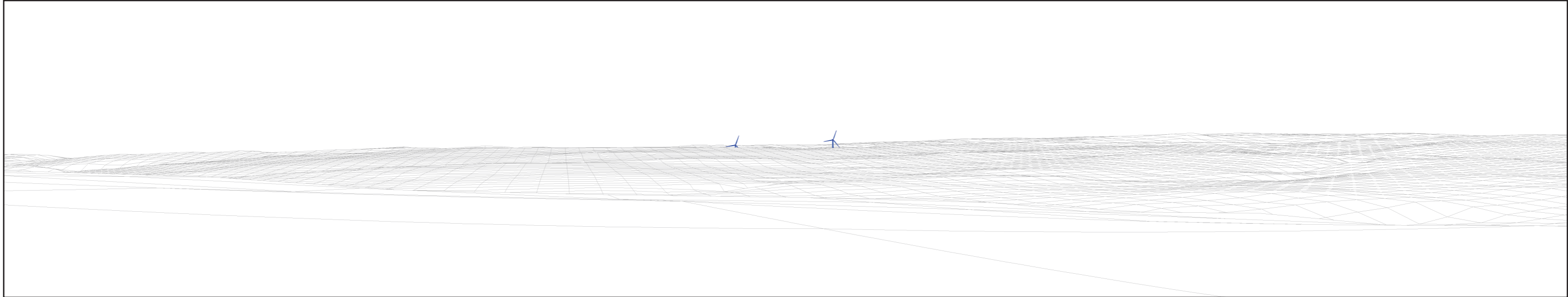
Sheephouse Heights

Viewpoint 11 - View from Green Moor

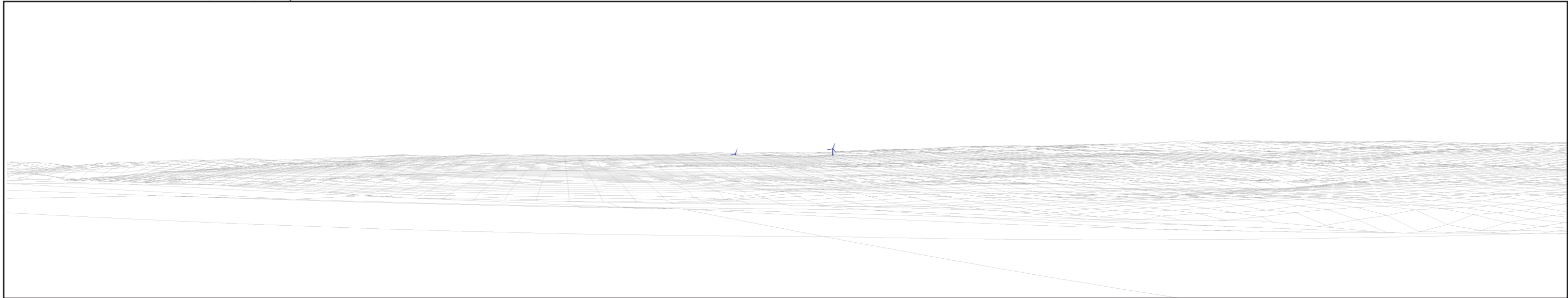




Wireline View - REPower MM82 - 82m Diameter, 60m Hub, 101m Tip



Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



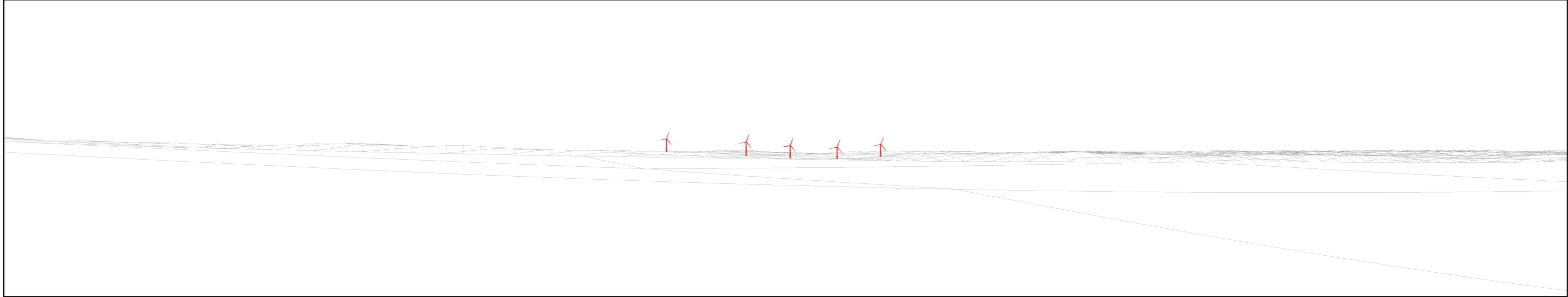
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 Camera Elevation Above Ground: 2m
 Distance to Proposed Turbines: 4.08km

This wireline should be viewed at approximately 255mm when printed at A3.

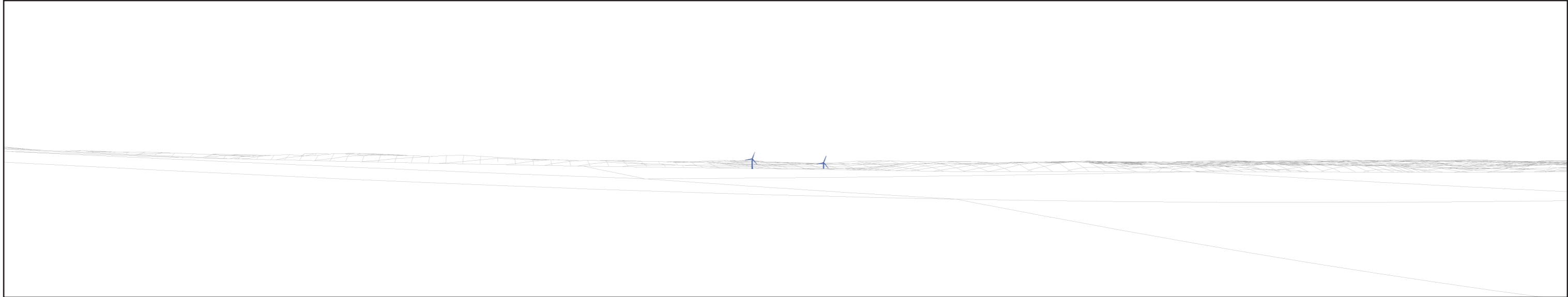
Sheephouse Heights

Viewpoint 14 - View from Junction of A629/A628

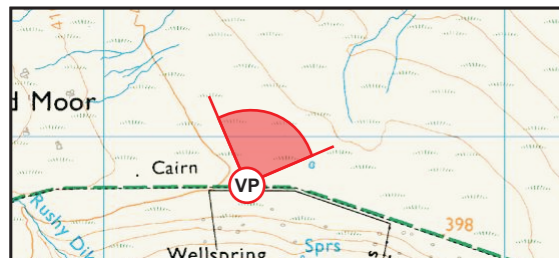
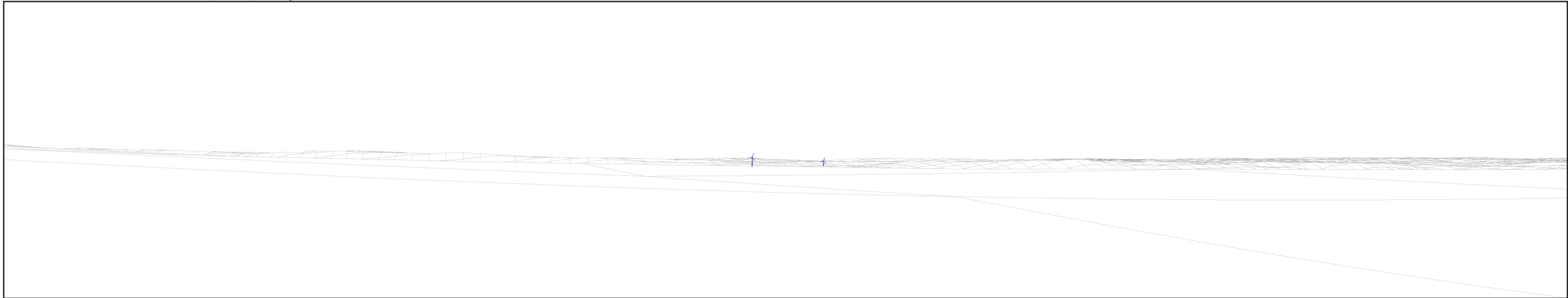




Wireline View - REPower MM82 - 82m Diameter, 60m Hub, 101m Tip



Wireline View - Enercon E48 - 48m Diameter, 55m Hub, 79m Tip



Viewpoint Grid Ref: SK 23389 94878
 Camera Elevation Above Ground: 2m
 Distance to Proposed Turbines: 5.50km

This wireline should be viewed at approximately 255mm when printed at A3.

Sheephouse Heights

Viewpoint 15 - View from Broomhead Moor

