


Viewpoint Location Plan  
Scale: 1:50,000 (Blade Tip ZTV)

**Note:**  
1. **ZTV:** Created using ESRI ArcGIS 10.4 software using the following data and parameters:  
Blade tip height: 115/130m  
DTM Data: OS Terrain 5. Resampled to a 10m grid.  
Observer height: 1.5m  
No surface features, such as buildings or trees, were included in the analysis.  
Earth curvature and light refraction has been included in calculations.  
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optimised environments

**Key**

- Gordonbush Extension FEI Layout
- ▼ 53.5 degree field of view viewpoint
- Gordonbush Turbine Locations

Gordonbush Extension FEI Layout Blade Tip ZTV

No. of turbines that are theoretically visible

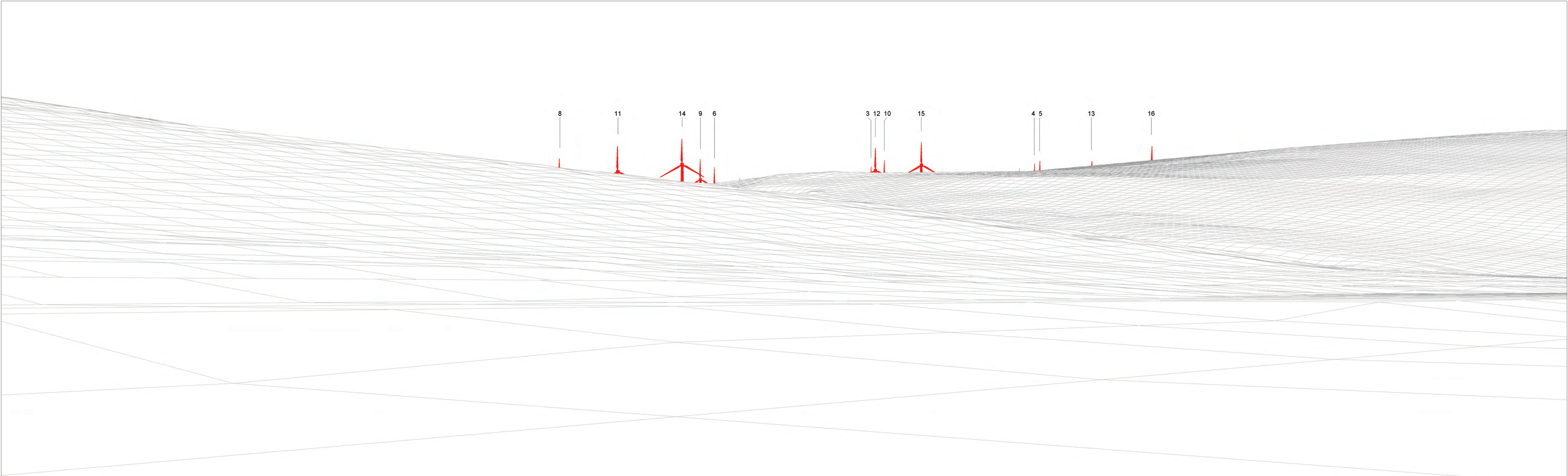
- 1 - 4
- 5 - 8
- 9 - 12
- 13 - 15

**Figure: 2.12a**  
**SNH VISUALISATIONS VIEWPOINT 5:**  
**STRATH BRORA NEAR BALNACOIL**

**Gordonbush Extension Wind Farm**  
**FEI**



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Wireline drawing of ES (June 2015) Layout

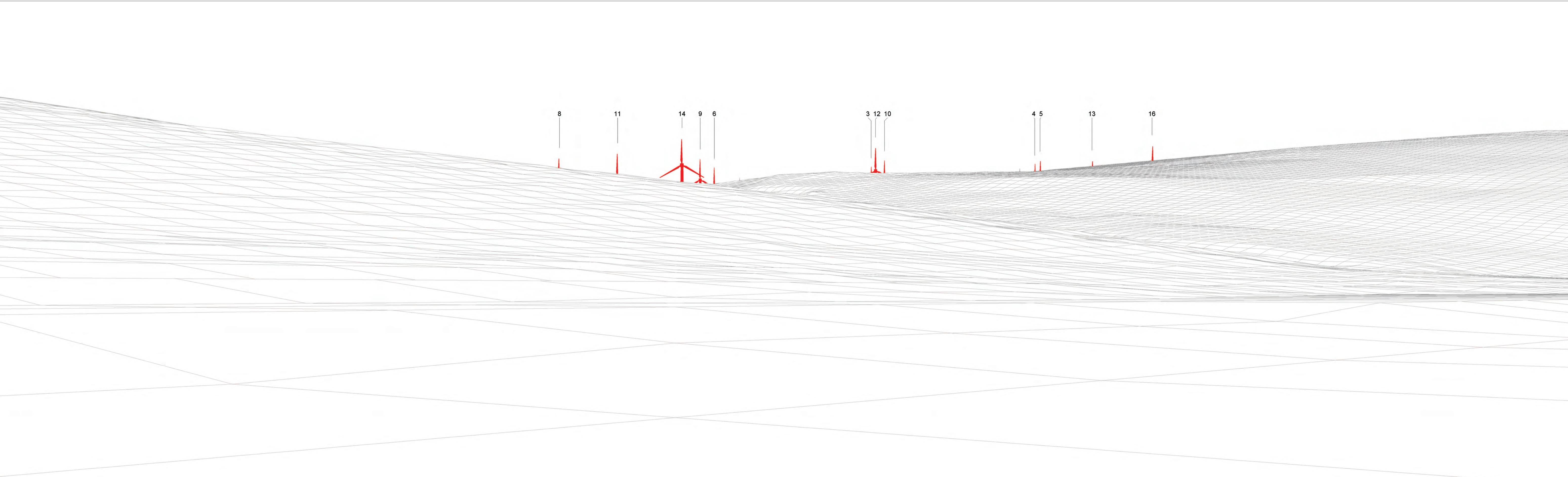
View flat at a comfortable arm's length

OS reference:	281797 E 910867 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk2
Eye level:	34.5 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	49°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	2.848 km	Correct printed image size:	820 x 260 mm	Date and time:	04/11/14, 15:48

Figure: 2.12b ES (June 2015) Layout  
SNH Viewpoint 5: Strath Brora near Balnacoil



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Wireline drawing of FEI Layout

View flat at a comfortable arm's length

<b>OS reference:</b> 281797 E 910867 N		<b>Horizontal field of view:</b> 53.5° (planar projection)		<b>Camera:</b> Canon EOS 5D Mk2	
<b>Eye level:</b> 34.5 m AOD		<b>Principal distance:</b> 812.5 mm		<b>Lens:</b> 50mm (Canon EF 50mm f/1.4)	
<b>Direction of view:</b> 49°		<b>Paper size:</b> 841 x 297 mm (half A1)		<b>Camera height:</b> 1.5 m AGL	
<b>Nearest turbine:</b> 2.848 km		<b>Correct printed image size:</b> 820 x 260 mm		<b>Date and time:</b> 04/11/14, 15:48	

Figure: 2.12c FEI Layout  
SNH Viewpoint 5: Strath Brora near Balnacoil





Photomontage of FEI Layout (Gordonbush Operational turbines have been montaged)

View flat at a comfortable arm's length

OS reference:	281797 E 910867 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk2
Eye level:	34.5 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	49°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	2.848 km	Correct printed image size:	820 x 260 mm	Date and time:	04/11/14, 15:48

Figure: 2.12d FEI Layout (ES Figure: 7.21d)  
SNH Viewpoint 5: Strath Brora near Balnacoil