

RWE

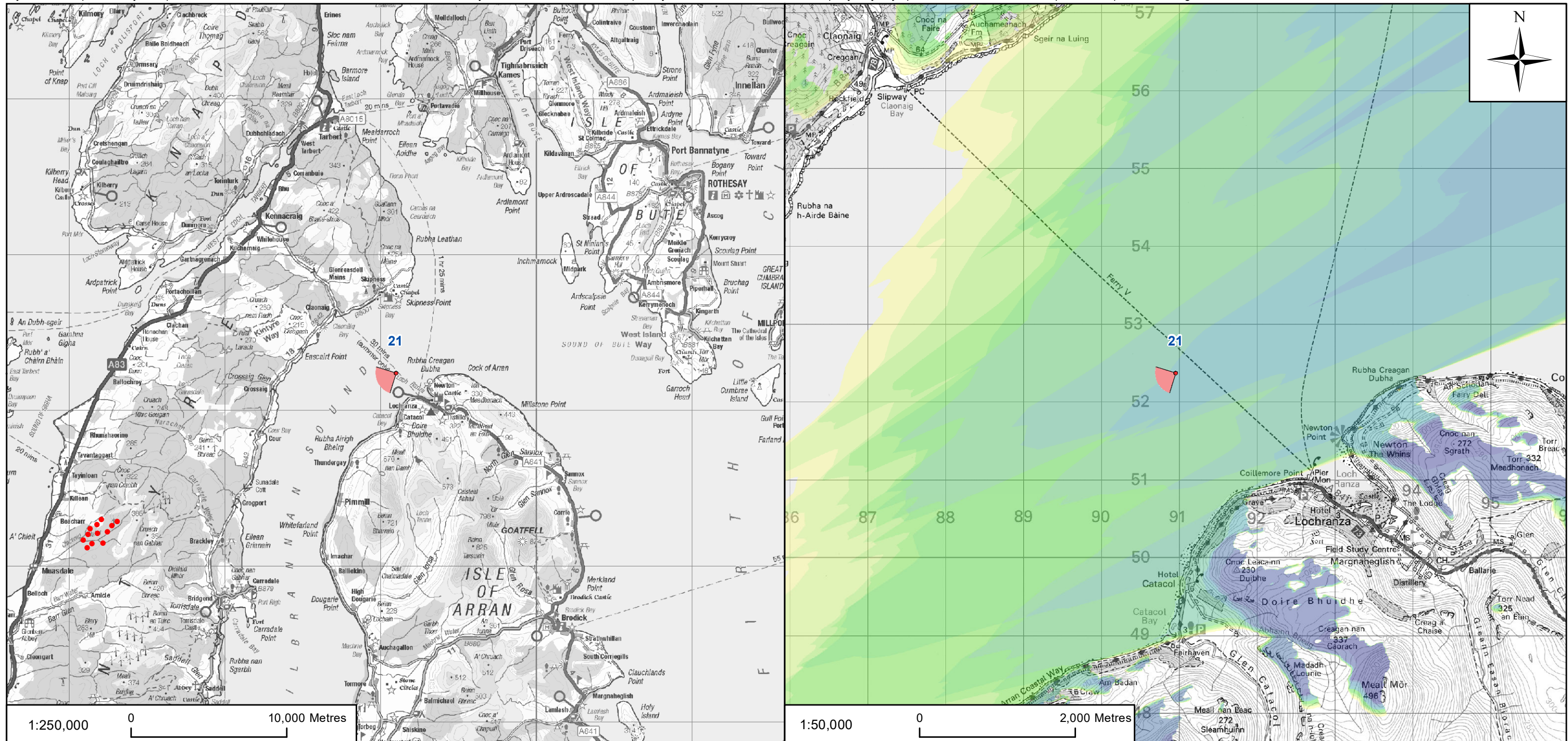
Clachaig Glen Wind Farm

Environmental Impact Assessment Report

Volume 2d

EIAR Visualisations

Figure: VP21.1



Due to the motion of the ferry during the sailing it was not feasible to use a fixed tripod location. From this location the camera was held manually at eye height in the most stable position possible.

Viewpoint 21:
From the Lochranza to Cloanaig Ferry on the return to the mainland. The picture was taken from the open, upper deck of the ferry, on the port side.

KEY:

- Proposed Turbine Location
- ◊ Viewpoint Location

Number of Turbine Tips Visible

1	5	9
2	6	10
3	7	11
4	8	12

Tripod Photograph

Description of Viewpoint Location

Client:	RWE
Project:	CLACHAIG GLEN WIND FARM ENVIRONMENTAL IMPACT ASSESSMENT

Title:	FIGURE VP21.1 VIEWPOINT 21 - LOCHRANZA - CLAONAIG FERRY
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Drawing Number:	CG_220105_EI AVP21.1_v1		A3



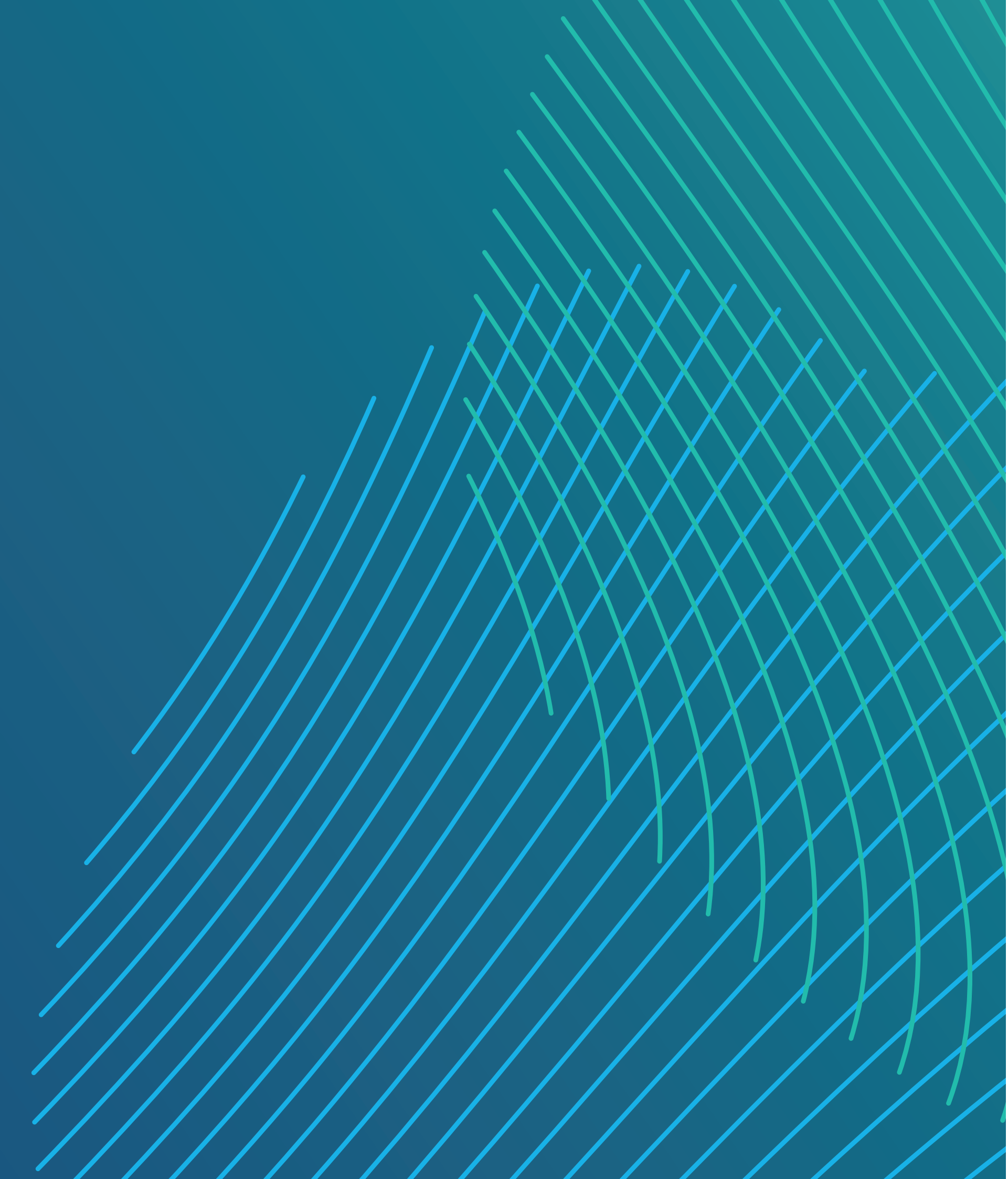
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**Figures: VP21.2; VP21.3;
VP21.4**



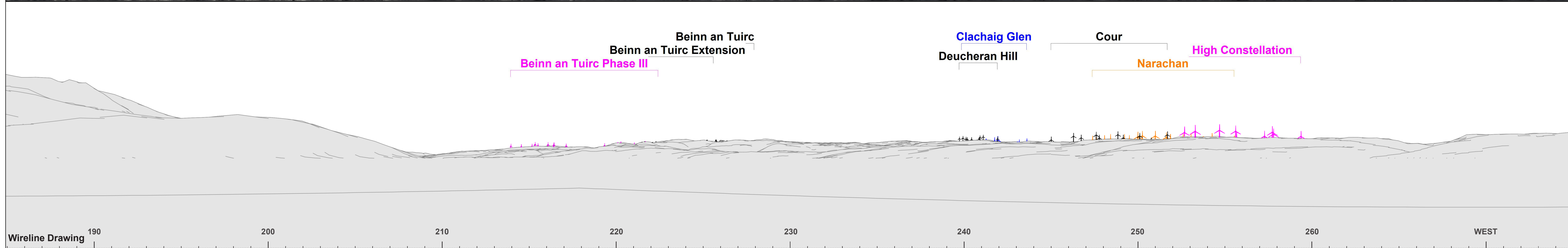
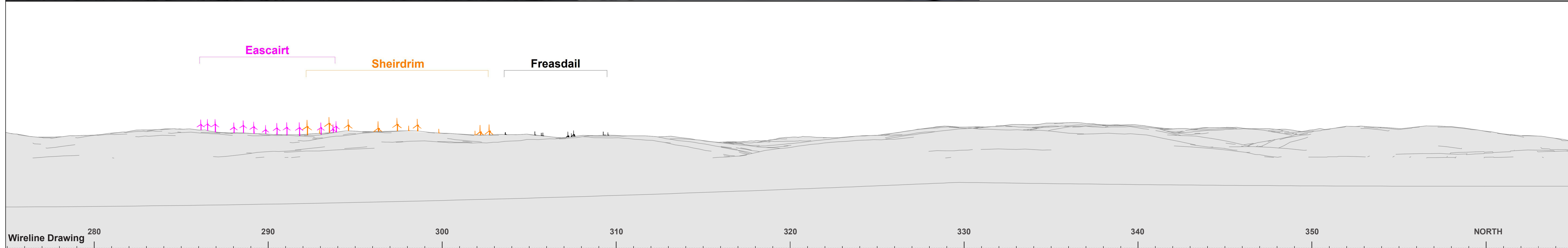


Figure VP21.2(Panel 1 of 2) - Cumulative Wireline
Viewpoint 21: Lochranza - Claonaig Ferry

OS reference:	190950 E 652364 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.5m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	242°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	20.26 km	Correct printed image size:	820 x 130mm	Date and time:	18/10/18 14:49



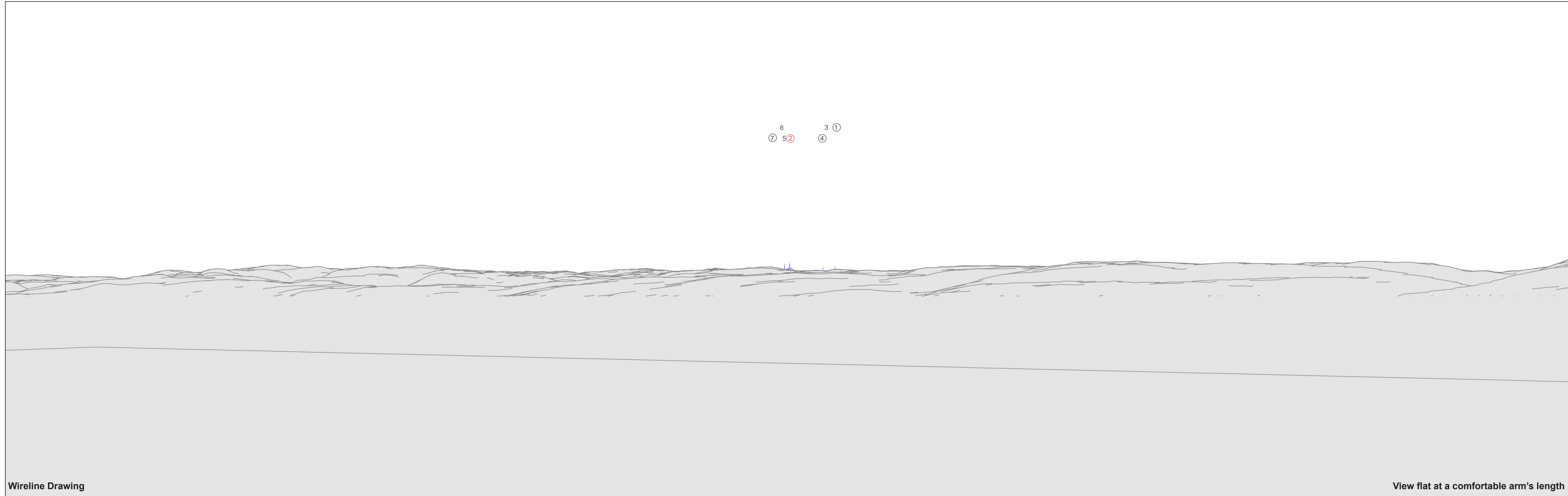
Baseline Photograph



Wireline Drawing

Figure VP21.2(Panel 2 of 2) - Cumulative Wireline
Viewpoint 21: Lochranza - Claonaig Ferry

OS reference:	190950 E 652364 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.5m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	242°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	20.26 km	Correct printed image size:	820 x 130mm	Date and time:	18/10/18 14:49



Wireline Drawing

View flat at a comfortable arm's length

Figure VP21.3 - Wireline Drawing
Viewpoint 21: Lochranza - Claonaig Ferry

- 3 Turbine with no aviation light
- ④ Turbine with aviation light screened by topography
- ⑦ Turbine with aviation light theoretically visible

OS reference:	190950 E 652364 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.5m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	242°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	20.26 km	Correct printed image size:	820 x 260mm	Date and time:	18/10/18 14:49



Photomontage

View flat at a comfortable arm's length

Figure VP21.4 - Photomontage
Viewpoint 21: Lochranza - Claonaig Ferry

OS reference:	190950 E 652364 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.5m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	242°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	20.26 km	Correct printed image size:	820 x 260mm	Date and time:	18/10/18 14:49

RWE

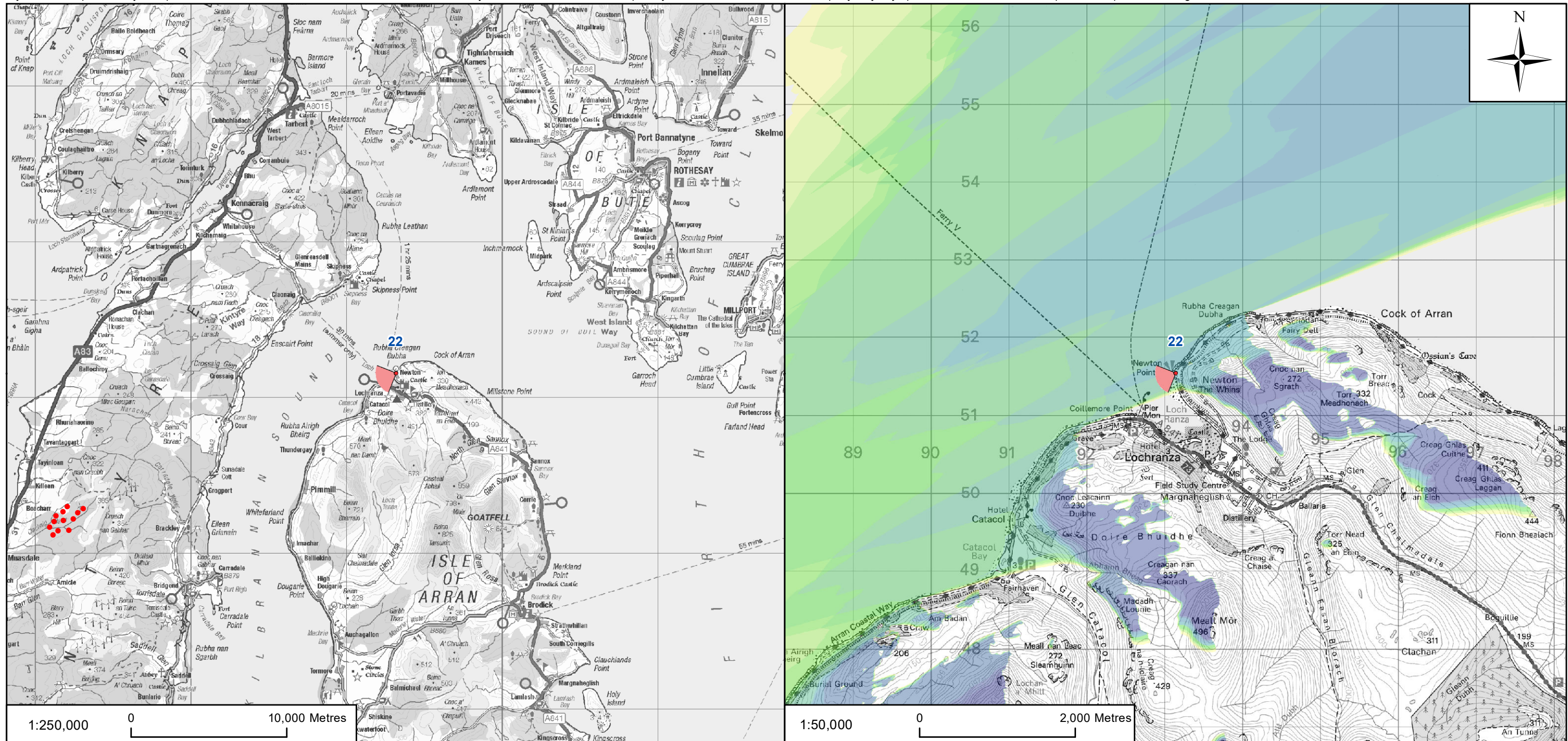
Clachaig Glen Wind Farm

Environmental Impact Assessment Report

Volume 2d

EIAR Visualisations

Figure: VP22.1



Tripod Photograph

Viewpoint 22:
From the Arran Coastal path adjacent to the low stone information panel at Newton Point. The route taken was to follow the coastal path from the north end of Newton Road, Lochranza.

Description of Viewpoint Location

KEY:

- Proposed Turbine Location
- ▲ Viewpoint Location

Number of Turbine Tips Visible

1	5	9
2	6	10
3	7	11
4	8	12

Client: **RWE**

Project: **CLACHAIG GLEN WIND FARM ENVIRONMENTAL IMPACT ASSESSMENT**

Title: **FIGURE VP22.1 VIEWPOINT 22 - NEWTON POINT, ARRAN**

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Figure: VP22.2



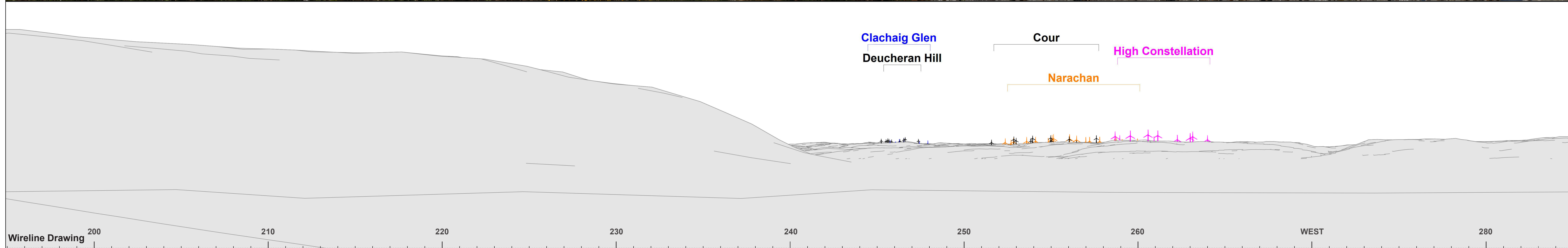


Figure VP22.2(Panel 1 of 2) - Cumulative Wireline
Viewpoint 22: Newton Point, Arran

OS reference:	193137 E 651538 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	6.7m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	247°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	21.87 km	Correct printed image size:	820 x 130mm	Date and time:	02/06/21 10:45

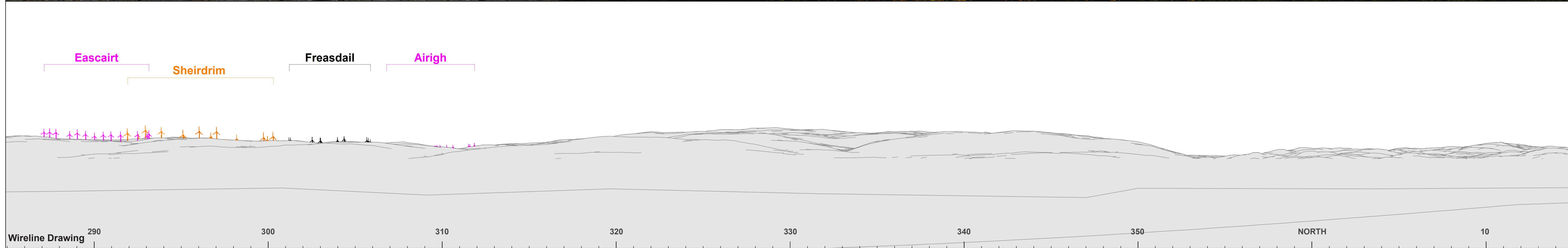


Figure VP22.2(Panel 2 of 2) - Cumulative Wireline
Viewpoint 22: Newton Point, Arran

OS reference:	193137 E 651538 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	6.7m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	247°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	21.87 km	Correct printed image size:	820 x 130mm	Date and time:	02/06/21 10:45



Clachaig Glen Wind Farm

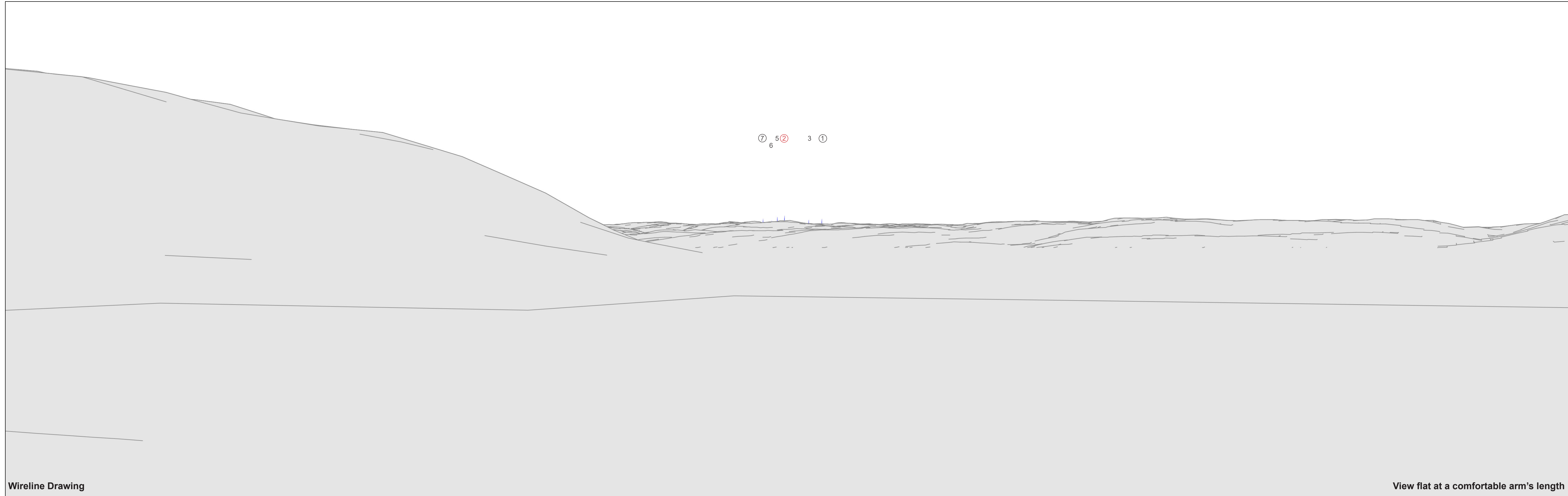
Environmental Impact Assessment Report

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EIAR Visualisations

Figure: VP22.3





Wireline Drawing

View flat at a comfortable arm's length

Figure VP22.3 - Wireline Drawing
Viewpoint 22: Newton Point, Arran

- 3 Turbine with no aviation light
- ④ Turbine with aviation light screened by topography
- ⑦ Turbine with aviation light theoretically visible

OS reference:	193137 E 651538 N	Horizontal field of view	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	6.7m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.8)
Direction of view:	247°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	21.87 km	Correct printed image size:	820 x 260mm	Date and time:	02/06/21 10:45

RWE

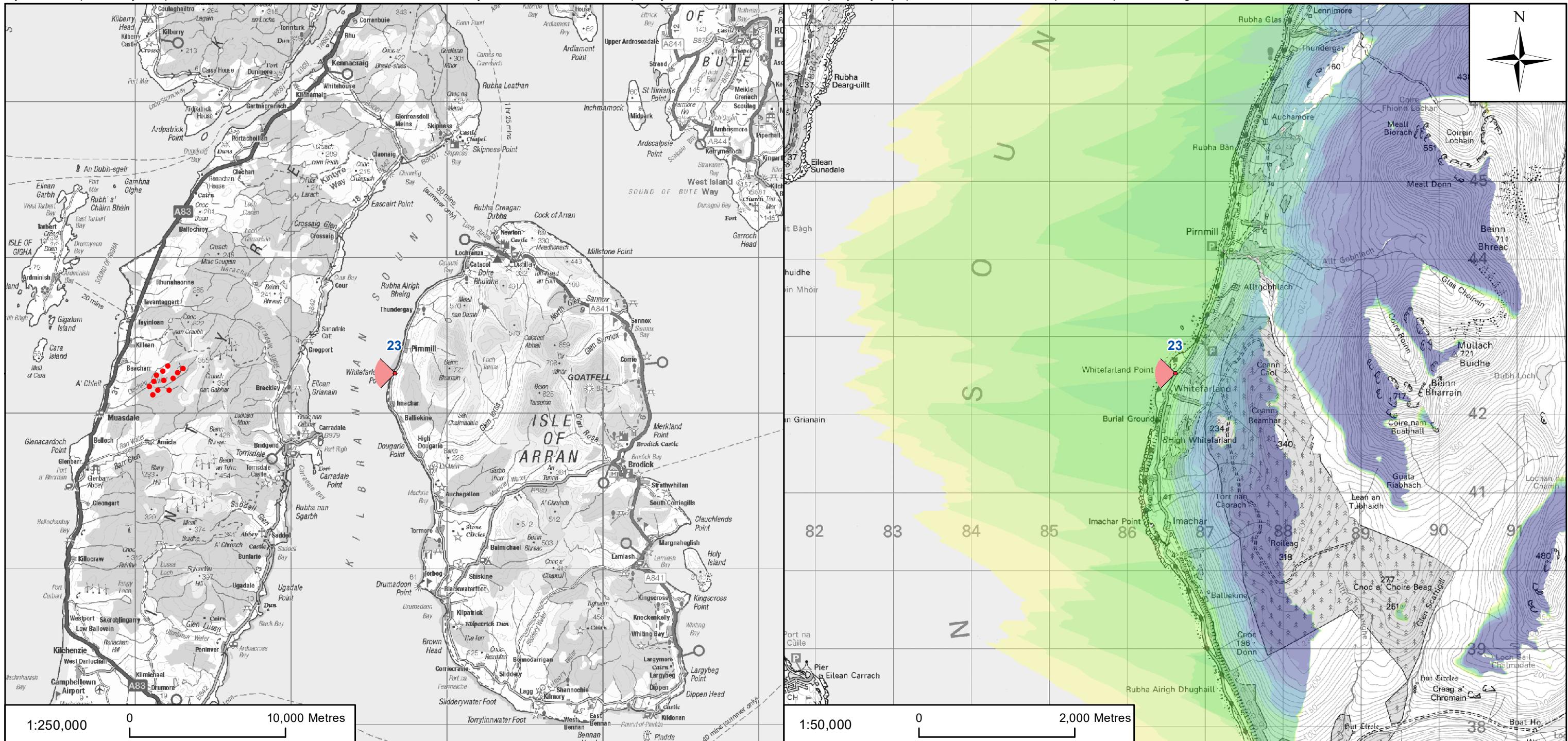
Clachaig Glen Wind Farm

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EIAR Visualisations

Figure: VP23.1



Tripod Photograph

Viewpoint 23:
From the A841 at Whitefarland on the verge of the south-bound carriageway.

Description of Viewpoint Location

KEY:

- Proposed Turbine Location
- ▲ Viewpoint Location

Number of Turbine Tips Visible

1	5	9
2	6	10
3	7	11
4	8	12

Client: **RWE**

Project: **CLACHAIG GLEN WIND FARM ENVIRONMENTAL IMPACT ASSESSMENT**

Title: **FIGURE VP23.1 VIEWPOINT 23 - A841 WHITEFARLAND, ARRAN**

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Clachaig Glen Wind Farm

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EIAR Visualisations

Figures: VP23.2; VP23.3; VP23.4



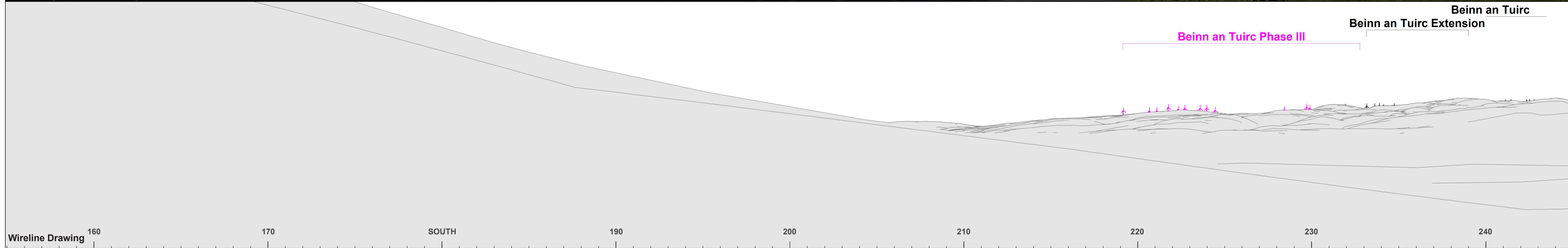


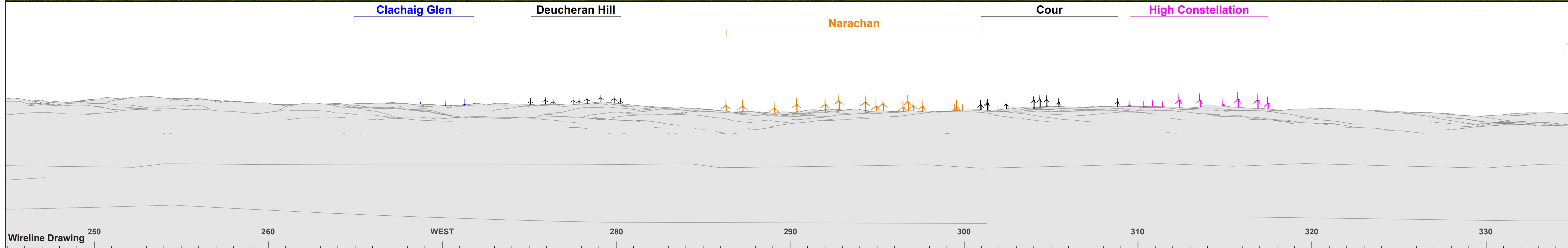
Figure VP23.2(Panel 1 of 3) - Cumulative Wireline
Viewpoint 23: A841 Whitefarland, Arran

OS reference:	186613 E 642531 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	15.97m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	268.5°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	13.56 km	Correct printed image size:	820 x 130mm	Date and time:	20/09/20 13:01



Baseline Photograph

This image provides landscape and visual context only



Wireline Drawing

Figure VP23.2(Panel 2 of 3) - Cumulative Wireline
Viewpoint 23: A841 Whitefarland, Arran

OS reference:	186613 E 642531 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	15.97m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	268.5°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	13.56 km	Correct printed image size:	820 x 130mm	Date and time:	20/09/20 13:01

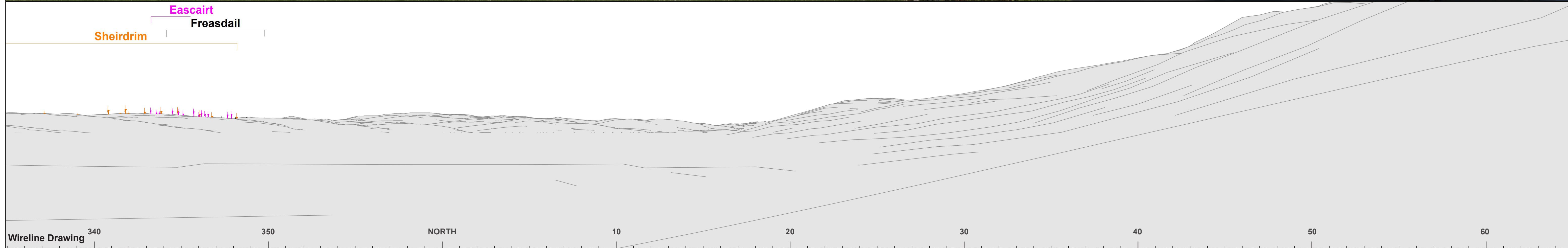
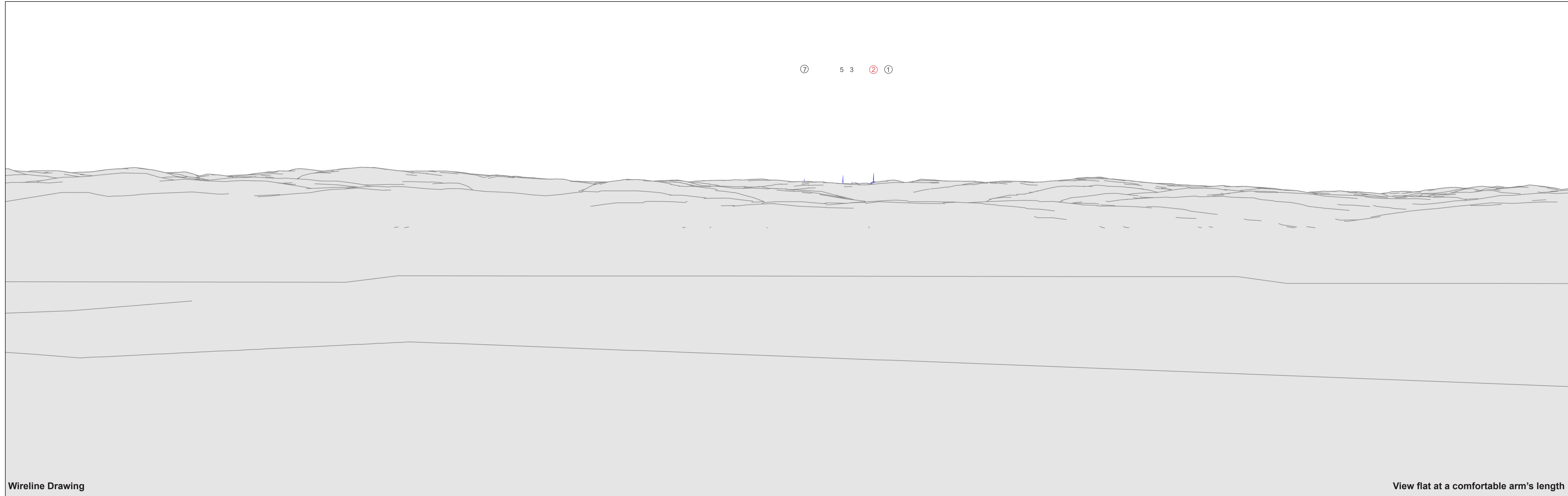


Figure VP23.2(Panel 3 of 3) - Cumulative Wireline
Viewpoint 23: A841 Whitefarland, Arran

OS reference:	186613 E 642531 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	15.97m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	268.5°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	13.56 km	Correct printed image size:	820 x 130mm	Date and time:	20/09/20 13:01



Wireline Drawing

View flat at a comfortable arm's length

Figure VP23.3 - Wireline Drawing
Viewpoint 23: A841 Whitefarland, Arran

- 3 Turbine with no aviation light
- ④ Turbine with aviation light screened by topography
- ⑦ Turbine with aviation light theoretically visible

OS reference:	186613 E 642531 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	15.97m AOD	Principal distance:	812.5 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	268.5°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	13.56 km	Correct printed image size:	820 x 260mm	Date and time:	20/09/20 13:01



Photomontage

View flat at a comfortable arm's length

Figure VP23.4 - Photomontage
Viewpoint 23: A841 Whitefarland, Arran

OS reference:	186613 E 642531 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	15.97m AOD	Principal distance:	812.5 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	268.5°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	13.56 km	Correct printed image size:	820 x 260mm	Date and time:	20/09/20 13:01

RWE

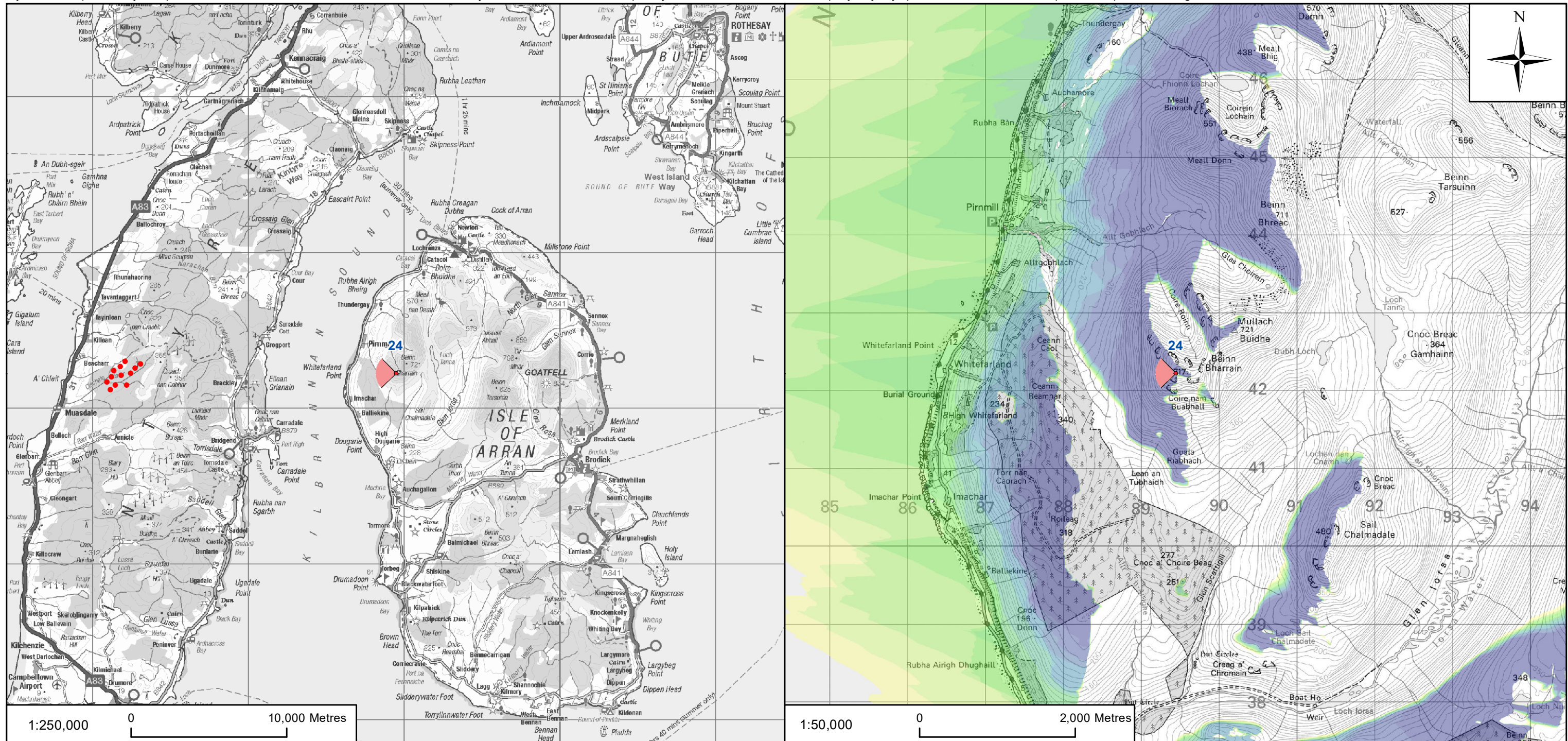
Clachaig Glen Wind Farm

Environmental Impact Assessment Report

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EIAR Visualisations

Figure: VP24.1



Tripod Photograph

Viewpoint 24:
 From the summit outcrop atop Beinn Bharrain. The route taken from the small settlement of Pirmill indicated by signage and following the north side of the watercourse through the bracken and woodland corridor before crossing the Allt Goblach where the path rises up the curving ridge heading up the moorland to the rocky formed summit. The photo is taken from the rocky outcrop west of the summit point.

Description of Viewpoint Location

KEY:

- Proposed Turbine Location
- ◊ Viewpoint Location

Number of Turbine Tips Visible

1	5	9
2	6	10
3	7	11
4	8	12

Client:	RWE
Project:	CLACHAIG GLEN WIND FARM ENVIRONMENTAL IMPACT ASSESSMENT

Title:	FIGURE VP24.1 VIEWPOINT 24 - BEINN BHARRAIN, ARRAN
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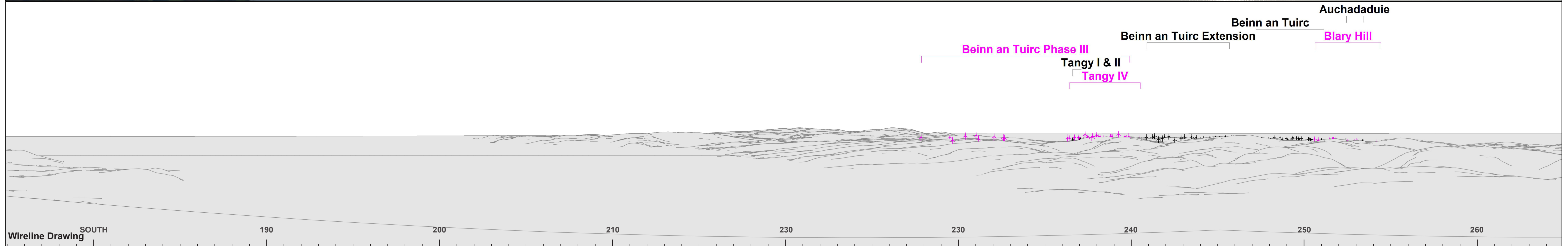
Visualisations

Figures: VP24.2; VP24.3; VP24.4



Baseline Photograph

This image provides landscape and visual context only



Wireline Drawing

Figure VP24.2(Panel 1 of 2) - Cumulative Wireline Viewpoint 24: Beinn Bharrain, Arran

OS reference:	189439 E 642218 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	696.69m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	269°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	16.40 km	Correct printed image size:	820 x 130mm	Date and time:	20/09/20 17:05

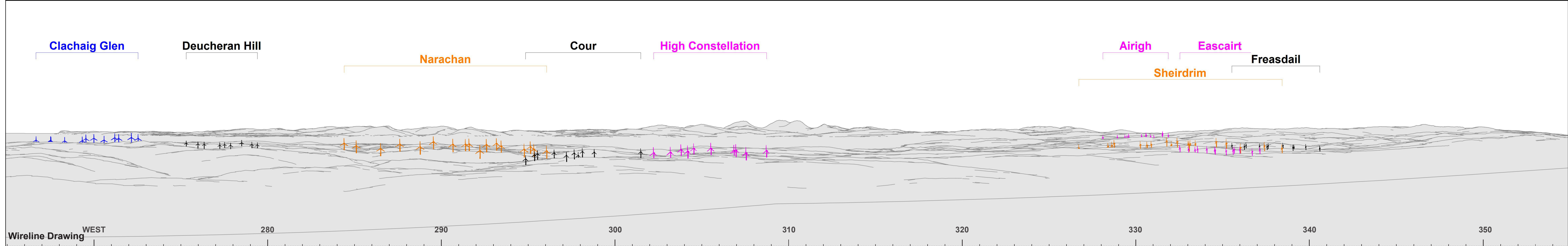
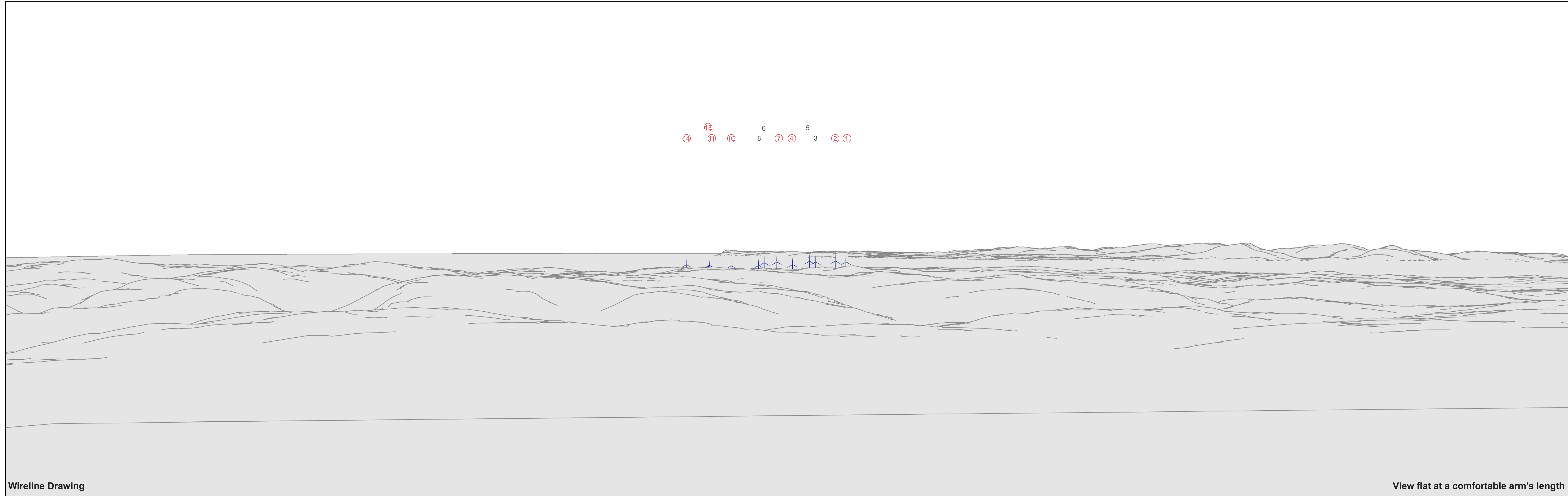


Figure VP24.2(Panel 2 of 2) - Cumulative Wireline
Viewpoint 24: Beinn Bharrain, Arran

OS reference:	189439 E 642218 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	696.69m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	269°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	16.40 km	Correct printed image size:	820 x 130mm	Date and time:	20/09/20 17:05



Wireline Drawing

View flat at a comfortable arm's length

Figure VP24.3 - Wireline Drawing
Viewpoint 24: Beinn Bharrain, Arran

- 3 Turbine with no aviation light
- ④ Turbine with aviation light screened by topography
- ⑦ Turbine with aviation light theoretically visible

OS reference:	189439 E 642218 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	696.69m AOD	Principal distance:	812.5 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	269°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	16.40 km	Correct printed image size:	820 x 260mm	Date and time:	20/09/20 17:05



Photomontage

View flat at a comfortable arm's length

Figure VP24.4 - Photomontage
Viewpoint 24: Beinn Bharrain, Arran

OS reference:	189439 E 642218 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	696.69m AOD	Principal distance:	812.5 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	269°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	16.40 km	Correct printed image size:	820 x 260mm	Date and time:	20/09/20 17:05



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Visualisations

Figure: VP24.5





Photomontage

View flat at a comfortable arm's length

Figure VP24.5 - Night-Time Photomontage (2000 candela)
Viewpoint 24: Beinn Bharrain, Arran

This visualisation provides a representation of the Proposed Development and associated aviation lighting at dusk. It is important to note that this image gives an impression of the lighting as captured by a photograph, rather than how they would be perceived by the naked eye. This tends to overstate the intensity but allows comparison with existing light sources within the photograph.

The aviation lighting is depicted operating at peak intensity (2000 candela at source). In reality the lighting is likely to operate at a lower intensity (10% of peak intensity) for upwards of 96% of the time (see Appendix 16.1, EIAR Volume 3 for analysis of historic data). Figure VP24.6 provides a representation of the aviation lighting in the reduced intensity mode.

The apparent intensity of the lighting can also be influenced by the vertical angle of view relative to the light source. In this case the distance (over 15 km), rather than the angle of view, would result in a reduction in the apparent intensity of the lighting. See Appendix 16.1 (EIAR Volume 3) for the calculated intensity of each aviation light from this location.

OS reference: 189439 E 642218 N
 Eye Level: 696.69m AOD
 Direction of view: 269°
 Nearest turbine: 16.40 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
 Correct printed image size: 820 x 260mm

Camera: Canon EOS 5D Mk 3
 Lens: Sigma 50mm (f1.4)
 Camera height: 1.5 m AGL
 Date and time: 20/09/20 19:47



Clachaig Glen Wind Farm

Environmental Impact Assessment Report

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Visualisations

Figure: VP24.6





Photomontage

View flat at a comfortable arm's length

Figure VP24.6 - Night-Time Photomontage (200 candela)
Viewpoint 24: Beinn Bharrain, Arran

This visualisation provides a representation of the Proposed Development and associated aviation lighting at dusk. It is important to note that this image gives an impression of the lighting as captured by a photograph, rather than how they would be perceived by the naked eye. This tends to overstate the intensity but allows comparison with existing light sources within the photograph.

The aviation lighting is depicted operating in the lower intensity mode (200 candela at source). Based on analysis of historic weather data it is anticipated that the lighting would operate in low intensity mode for upwards of 96% of the time (see Appendix 16.1, EIA Volume 3 for details). Figure VP24.5 provides a representation of the aviation lighting in the peak intensity mode.

The apparent intensity of the lighting can also be influenced by the vertical angle of view relative to the light source. In this case the distance (over 15 km), rather than the angle of view, would result in a reduction in the apparent intensity of the lighting. See Appendix 16.1 (EIA Volume 3) for the calculated intensity of each aviation light from this location.

OS reference: 189439 E 642218 N
 Eye Level: 696.69m AOD
 Direction of view: 269°
 Nearest turbine: 16.40 km

Horizontal field of view: 53.5° (planar projection)
 Principal distance: 812.5 mm
 Paper size: 841 x 297 mm (half A1)
 Correct printed image size: 820 x 260mm

Camera: Canon EOS 5D Mk 3
 Lens: Sigma 50mm (f1.4)
 Camera height: 1.5 m AGL
 Date and time: 20/09/20 19:47

RWE

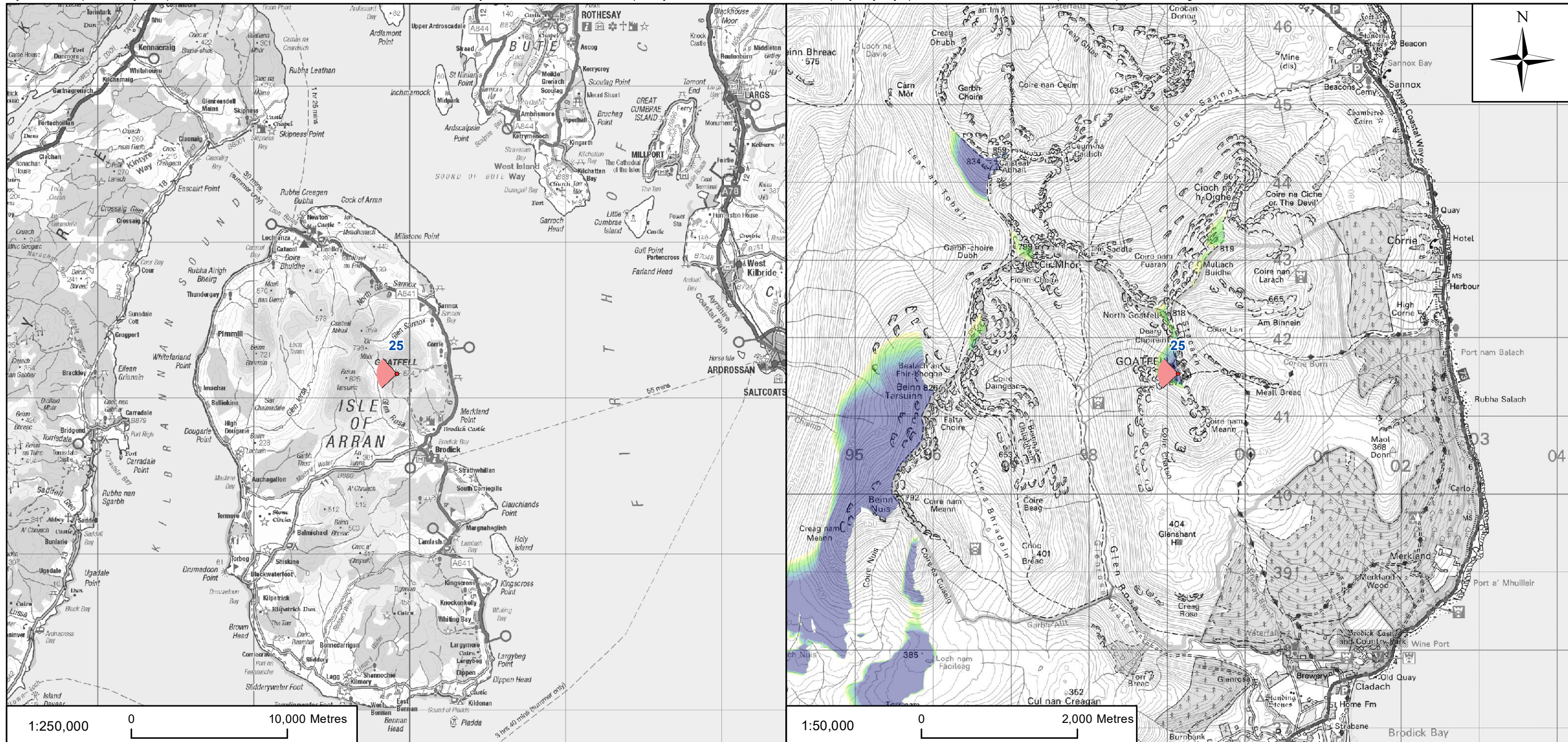
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EIAR Visualisations

Figure: VP25.1



1:250,000 0 10,000 Metres

Wireline only, no photograph.

Tripod Photograph

1:50,000 0 2,000 Metres

Viewpoint 25:
From the summit of Goatfell. The main walking route to the peak begins from the Cladach Centre, 1.5km north of Brodick. It initially follows farm and forestry tracks, becoming a narrower but well defined footpath as it climbs northward, before turning westward to follow the top of a ridgeline towards the summit.

KEY:

- Proposed Turbine Location
- Viewpoint Location

Number of Turbine Tips Visible

1	5	9
2	6	10
3	7	11
4	8	12

Description of Viewpoint Location

Drawn:	LC	Checked:	LC
Verified:	AR	Approved:	SW
Date:	JANUARY 2022	Scale at A3:	1:250,000 / 1:50,000
Drawing Number:	CG_220105_EI AVP25.1_v1		A3

Client: **RWE**

Project: CLACHAIG GLEN WIND FARM ENVIRONMENTAL IMPACT ASSESSMENT

Title: **FIGURE VP25.1 VIEWPOINT 25 - GOATFELL, ARRAN**

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A3



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EIAR Visualisations

Figures: VP25.2; VP25.3





Beinn an Tuirc Phase III
Tangy I & II
Tangy IV

Beinn an Tuirc Extension

Auchadaduie
Beinn an Tuirc
Blary Hill

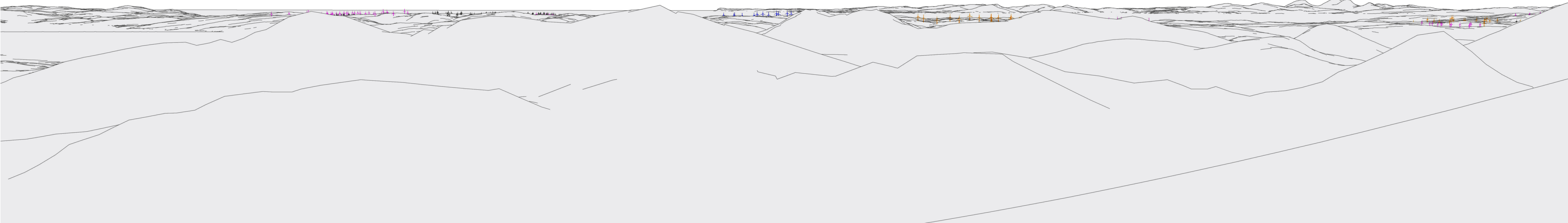
Clachaig Glen

Narachan

High Constellation

Sheirdrim

Eascairt
Airigh Freasdail

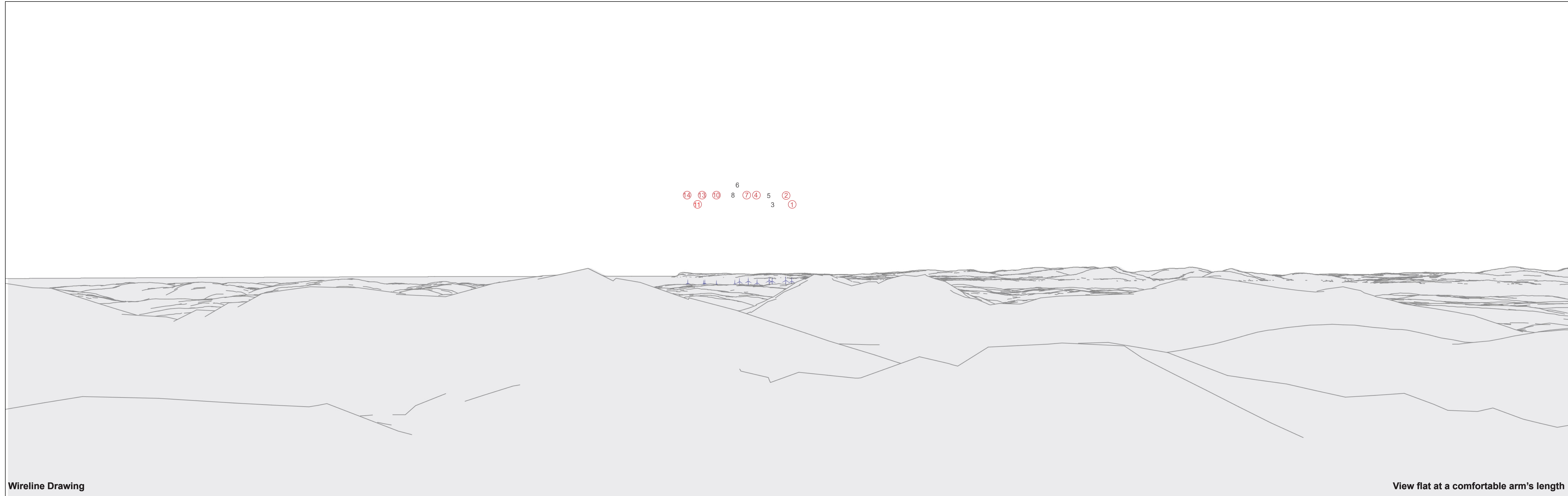


Wireline Drawing

240 250 260 WEST 280 290 300 310

Figure VP25.2 - Cumulative Wireline Drawing
Viewpoint 25: Goat Fell

OS reference:	199135 E 641538 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	-
Eye Level:	851m AOD	Principal distance:	522 mm	Lens:	-
Direction of view:	273°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	26.11 km	Correct printed image size:	820 x 250mm	Date and time:	-



Wireline Drawing

View flat at a comfortable arm's length

Figure VP25.3 - Wireline Drawing
Viewpoint 25: Goat Fell

- 3 Turbine with no aviation light
- ④ Turbine with aviation light screened by topography
- ⑦ Turbine with aviation light theoretically visible

OS reference:	199135 E 641538 N	Horizontal field of view:	53.5° (planar projection)	Camera:	-
Eye Level:	851m AOD	Principal distance:	812 mm	Lens:	-
Direction of view:	273°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	26.11 km	Correct printed image size:	820 x 260mm	Date and time:	-

