

RWE

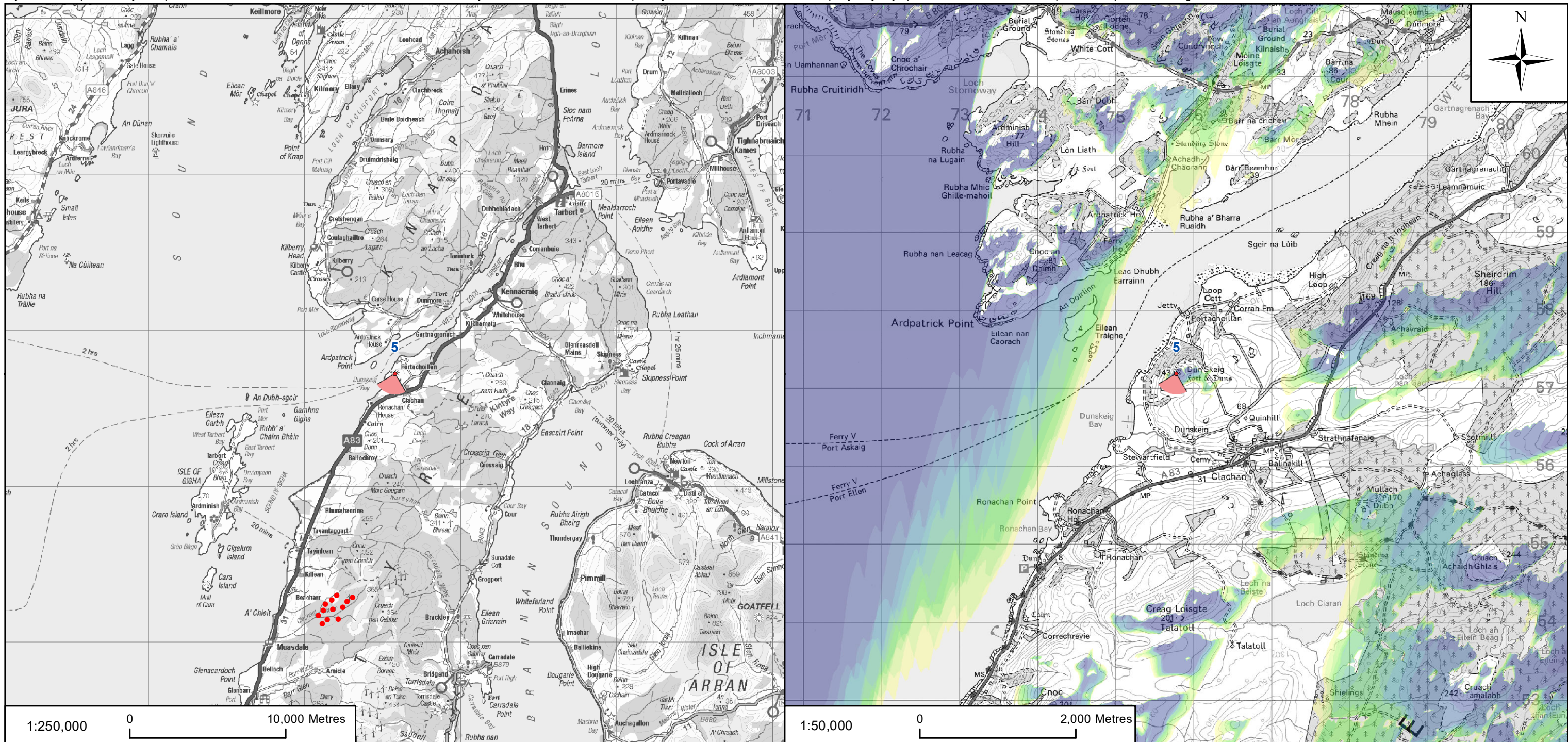
Clachaig Glen Wind Farm

Environmental Impact Assessment Report

Volume 2d

EIAR Visualisations

Figure: VP5.1



Tripod Photograph

Viewpoint 5:
From adjacent to the small cairn southwest of the summit. The route taken was to follow the track heading northwest from Quinhill on the minor road north of Clachan for approximately 800m before passing through the drystone dyke and heading east along a faint path to the summit.

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 VP5.1 VIEWPOINT 5 - DUN SKEIG**

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Drawn: LC	Checked: LC
Verified: AR	Approved: SW
Date: JANUARY 2022	Scale at A3: 1:250,000 / 1:50,000
Drawing Number: CG_220105_EIAMP5.1_v1	A3



Clachaig Glen Wind Farm

Environmental Impact Assessment Report

Volume 2d

EIAR Visualisations

Figure: VP5.2



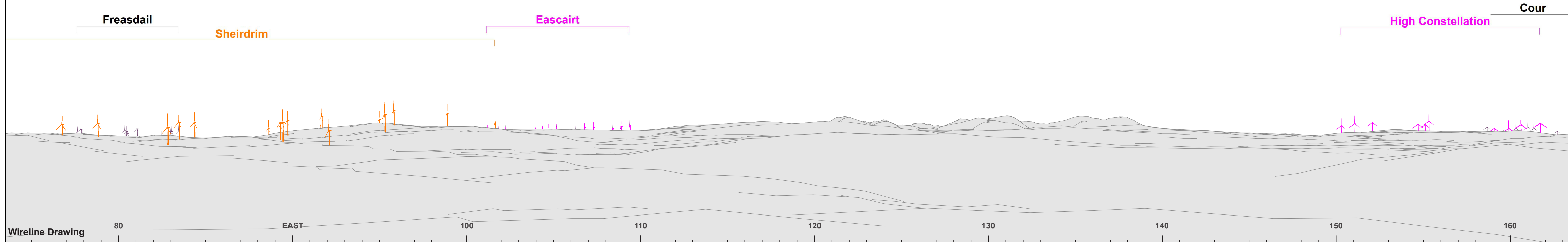


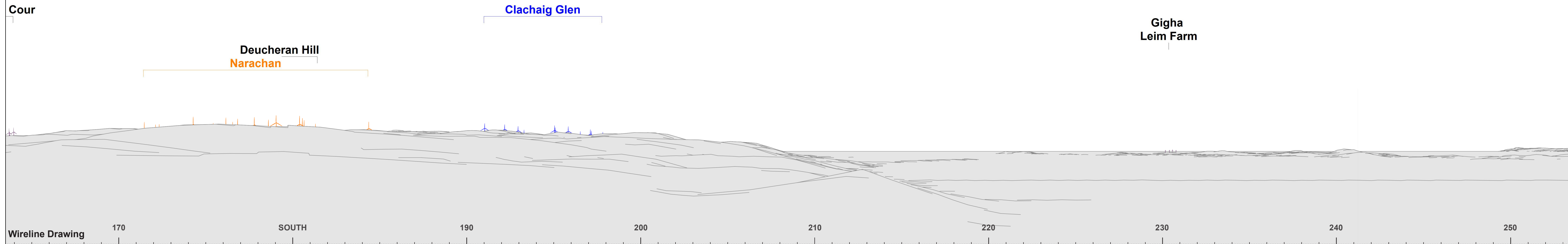
Figure VP5.2(Panel 1 of 4) - Cumulative Wireline Viewpoint 5: Dun Skeig

OS reference:	175775 E 657185 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	133.78m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	194.4°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.57 km	Correct printed image size:	820 x 130mm	Date and time:	19/09/20 10:00



Baseline Photograph

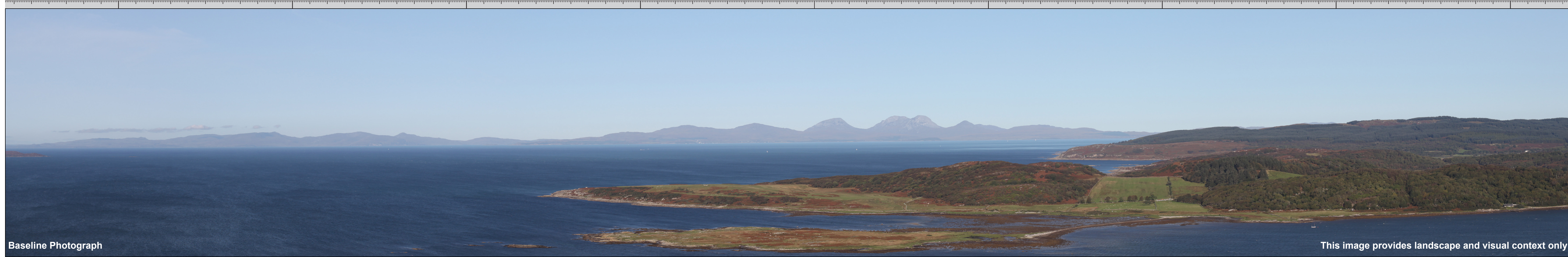
This image provides landscape and visual context only



Wireline Drawing

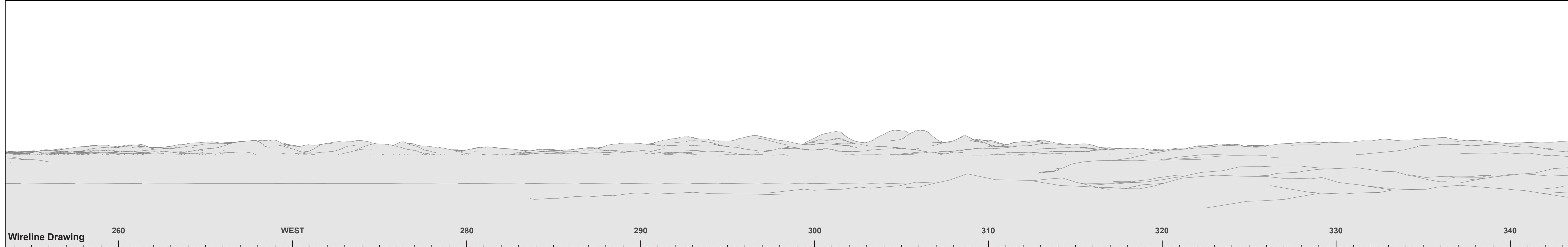
Figure VP5.2(Panel 2 of 4) - Cumulative Wireline Viewpoint 5: Dun Skeig

OS reference:	175775 E 657185 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	133.78m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	194.4°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.57 km	Correct printed image size:	820 x 130mm	Date and time:	19/09/20 10:00



Baseline Photograph

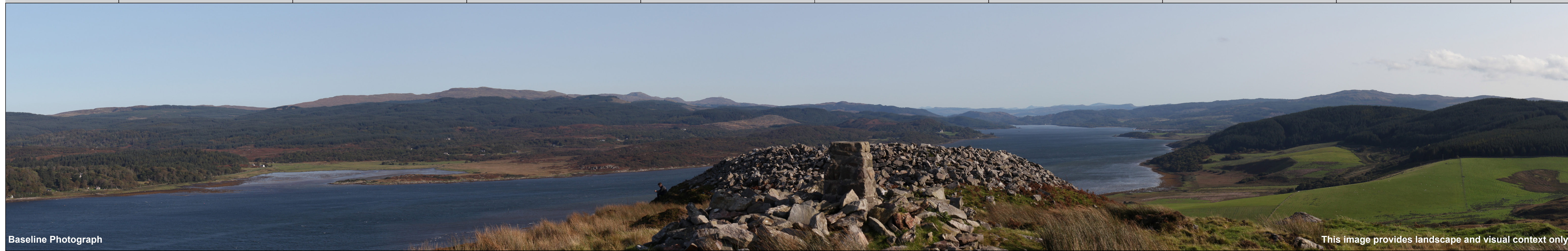
This image provides landscape and visual context only



Wireline Drawing

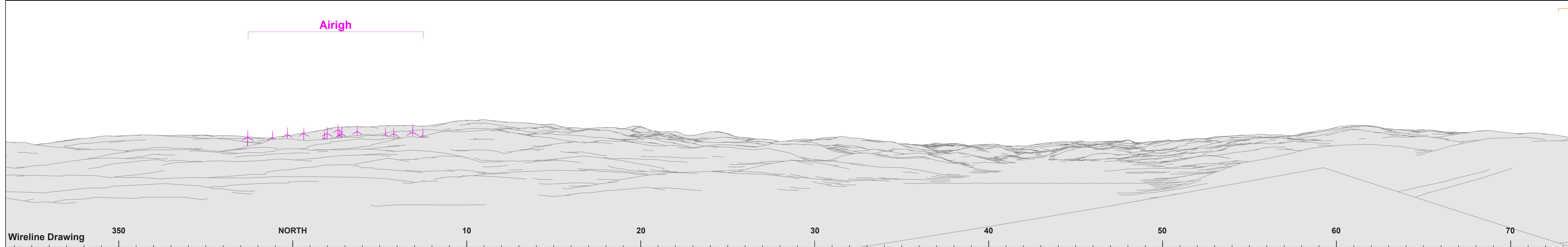
Figure VP5.2(Panel 3 of 4) - Cumulative Wireline Viewpoint 5: Dun Skeig

OS reference:	175775 E 657185 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	133.78m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	194.4°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.57 km	Correct printed image size:	820 x 130mm	Date and time:	19/09/20 10:00



Baseline Photograph

This image provides landscape and visual context only



Wireline Drawing

Figure VP5.2(Panel 4 of 4) - Cumulative Wireline
Viewpoint 5: Dun Skeig

OS reference:	175775 E 657185 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	133.78m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	194.4°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.57 km	Correct printed image size:	820 x 130mm	Date and time:	19/09/20 10:00



Clachaig Glen Wind Farm

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EIAR Visualisations

Figures: VP5.3; VP5.4





Wireline Drawing

View flat at a comfortable arm's length

Figure VP5.3 - Wireline Drawing
Viewpoint 5: Dun Skeig

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

OS reference:	175775 E 657185 N	Horizontal field of view	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	133.78m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	194.4°	Paper size:	841 x 297 mm (half A1)	Camera height	1.5 m AGL
Nearest turbine:	14.57 km	Correct printed image size:	820 x 260mm	Date and time:	19/09/20 10:00



Photomontage

View flat at a comfortable arm's length

Figure VP5.4 - Photomontage
Viewpoint 5: Dun Skeig

OS reference:	175775 E 657185 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	133.78m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	194.4°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.57 km	Correct printed image size:	820 x 260mm	Date and time:	19/09/20 10:00

RWE

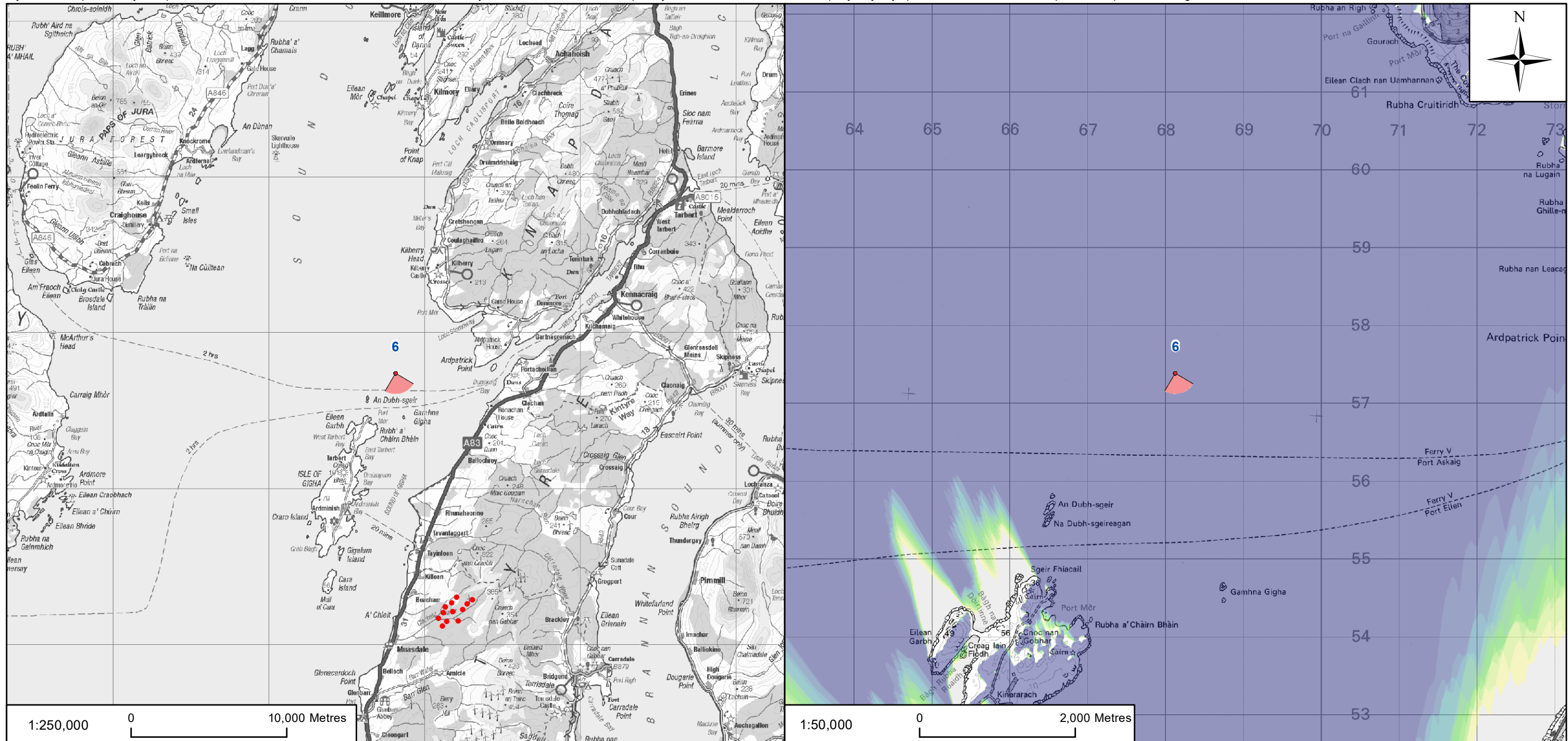
Clachaig Glen Wind Farm

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EIAR Visualisations

Figure: VP6.1



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 6:
From the Kennacraig to Port Askaig Ferry. The picture was taken from the open, upper deck of the ferry, at the front 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 VP6.1 VIEWPOINT 6 - KENNACRAIG - PORT ASKAIG FERRY
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Date:	JANUARY 2022	Scale at A3:	1:250,000 / 1:50,000
Drawing Number:	CG_220105_EI AVP6.1_v1		A3



Clachaig Glen Wind Farm

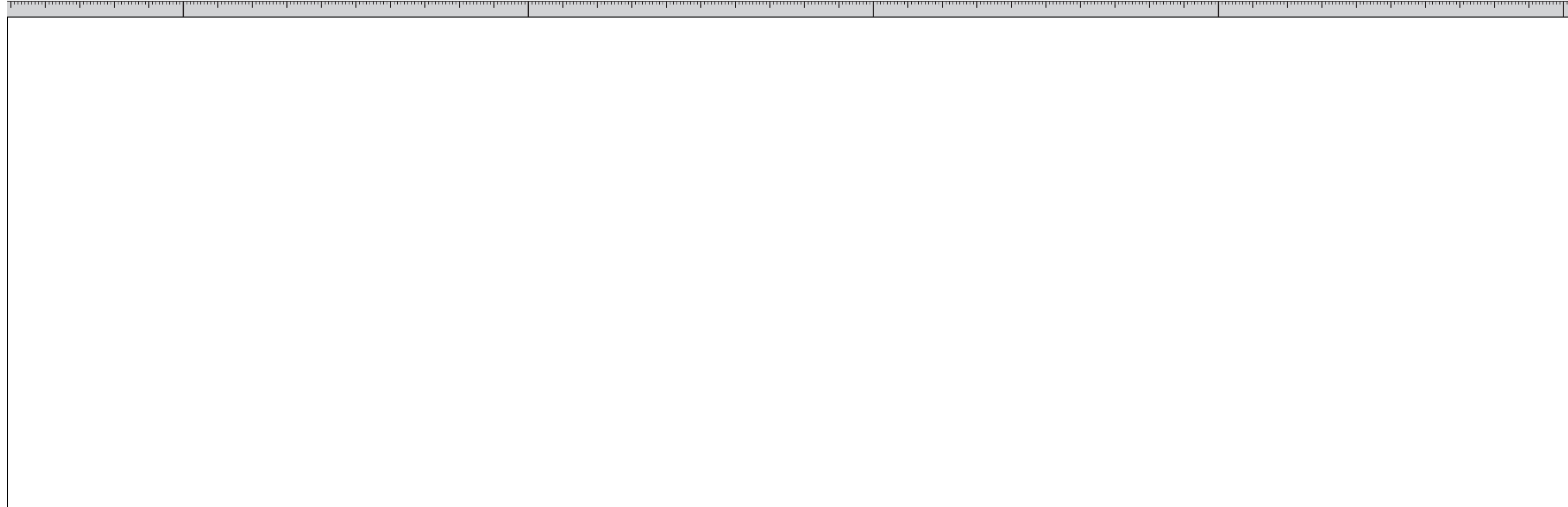
Environmental Impact Assessment Report

Volume 2d

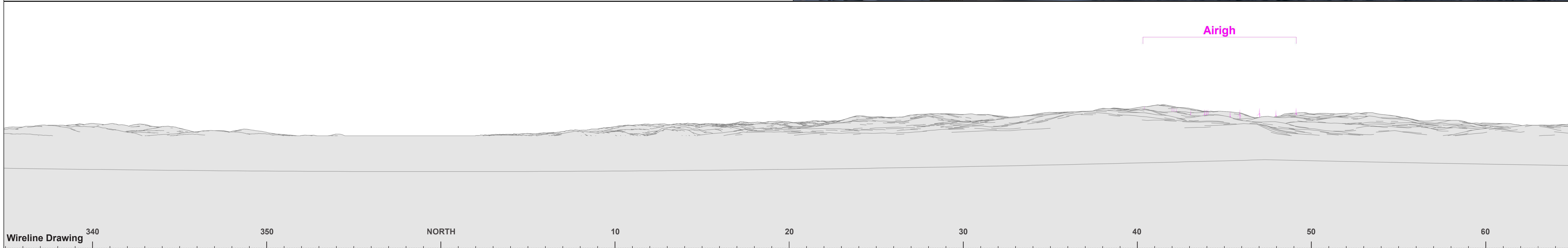
EIAR Visualisations

Figures: VP6.2; VP6.3; VP6.4





This image provides landscape and visual context only



Wireline Drawing 340

350

NORTH

10

20

30

40

50

60

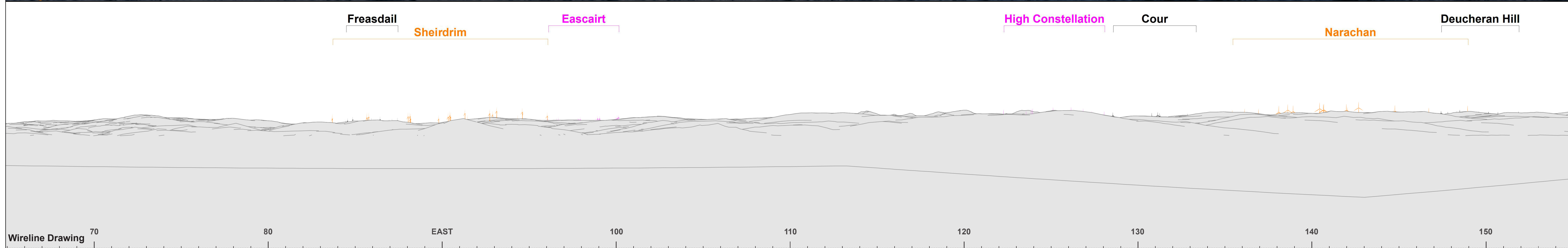
Figure VP6.2(Panel 1 of 3) - Cumulative Wireline Viewpoint 6: Kennacraig, Port Askaig Ferry

OS reference:	168126 E 657382 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 (f1.4)
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.88 km	Correct printed image size:	820 x 130mm	Date and time:	17/10/18 16:44



Baseline Photograph

This image provides landscape and visual context only



Wireline Drawing

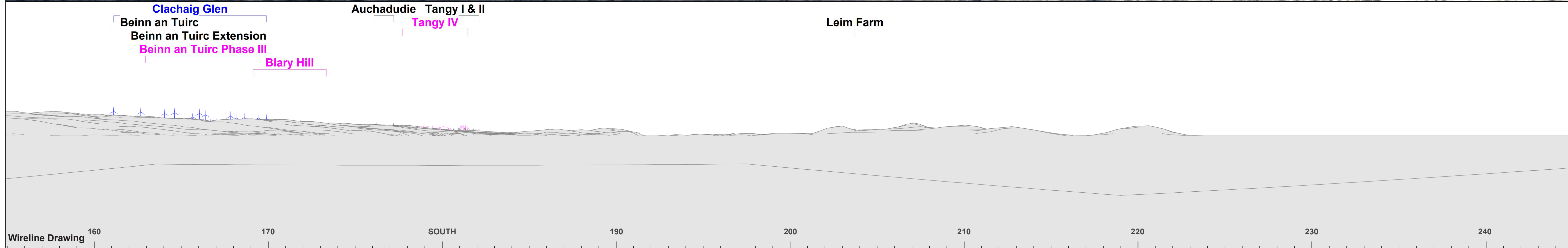
Figure VP6.2(Panel 2 of 3) - Cumulative Wireline
Viewpoint 6: Kennacraig, Port Askaig Ferry

OS reference:	168126 E 657382 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 (f1.4)
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.88 km	Correct printed image size:	820 x 130mm	Date and time:	17/10/18 16:44



Baseline Photograph

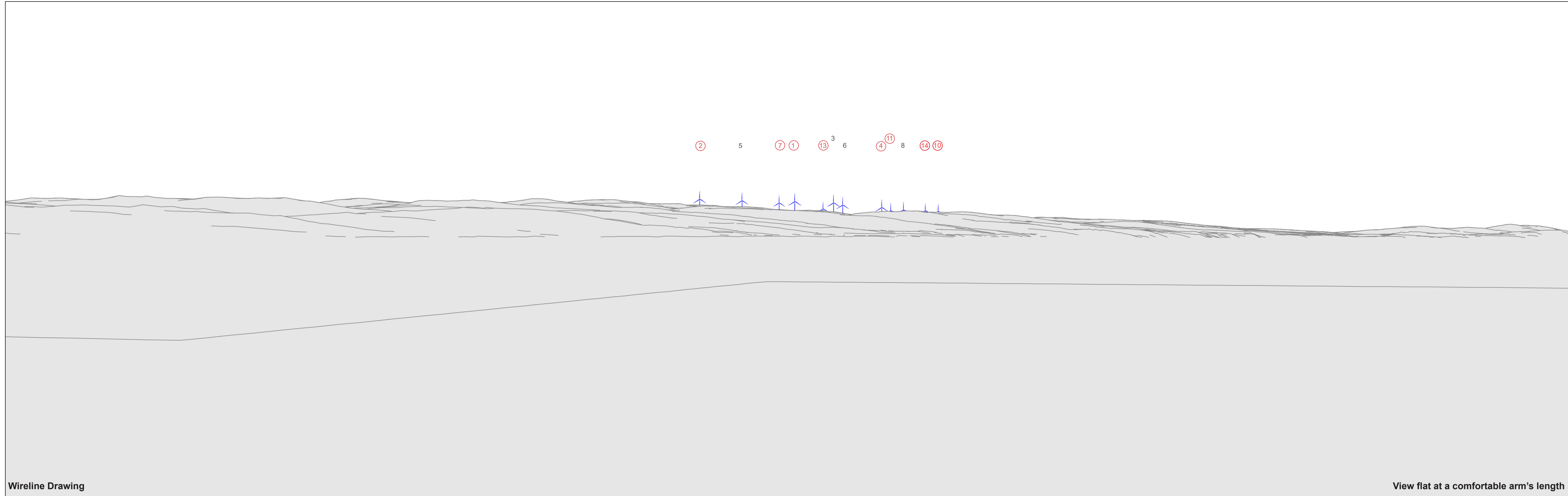
For information only - not for use in any other context



Wireline Drawing

Figure VP6.2(Panel 3 of 3) - Cumulative Wireline Viewpoint 6: Kennacraig, Port Askaig Ferry

OS reference:	168126 E 657382 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 (f1.4)
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.88 km	Correct printed image size:	820 x 130mm	Date and time:	17/10/18 16:44



Wireline Drawing

View flat at a comfortable arm's length

Figure VP6.3 - Wireline Drawing
Viewpoint 6: Kennacraig, Port Askaig Ferry

OS reference:	168126 E 657382 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 (f1.4)
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.88 km	Correct printed image size:	820 x 260mm	Date and time:	17/10/18 16:44



Photomontage

View flat at a comfortable arm's length

Figure VP6.4 - Photomontage
Viewpoint 6: Kennacraig, Port Askaig Ferry

OS reference:	168126 E 657382 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 (f1.4)
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	14.88 km	Correct printed image size:	820 x 260mm	Date and time:	17/10/18 16:44

RWE

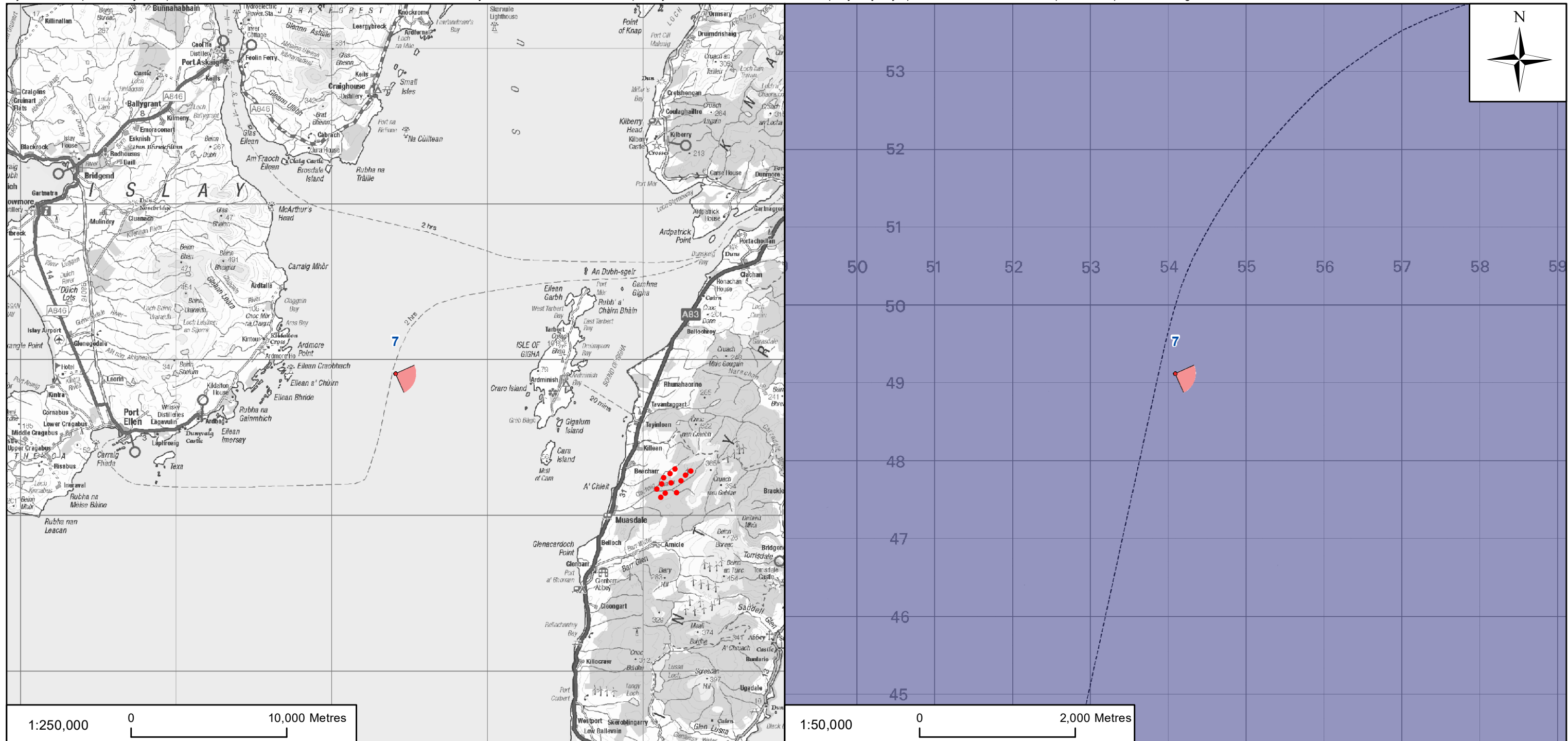
Clachaig Glen Wind Farm

Environmental Impact Assessment Report

Volume 2d

EIAR Visualisations

Figure: VP7.1



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 7:
From the Kennacraig to Port Ellen Ferry on the return to the mainland. The picture was taken from the open, upper deck of the ferry, at the front on the starboard side.

KEY:

- Proposed Turbine Location
- ◂ Viewpoint Location

Number of Turbine Tips Visible

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

Tripod Photograph

Description of Viewpoint Location

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

Title:	FIGURE VP7.1 VIEWPOINT 7 - KENNACRAIG - PORT ELLEN FERRY
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Clachaig Glen Wind Farm

Environmental Impact Assessment Report

Volume 2d

EIAR Visualisations

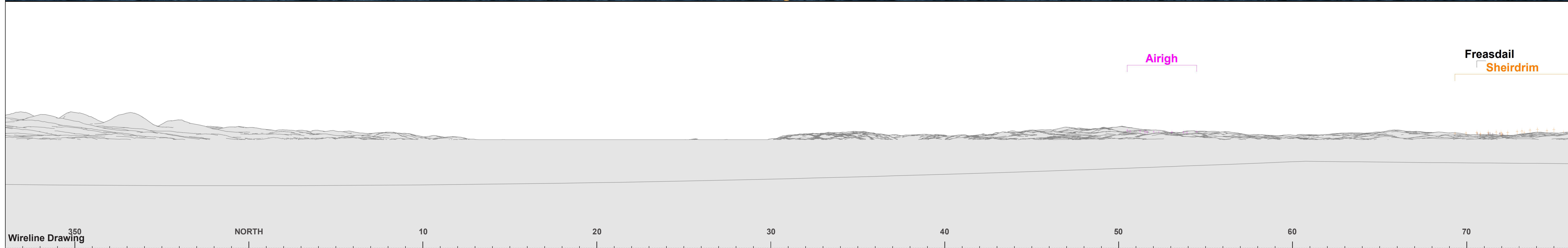
Figures: VP7.2; VP7.3; VP7.4





Baseline Photograph

This image provides landscape and visual context only



Wireline Drawing

Figure VP7.2(Panel 1 of 2) - Cumulative Wireline
Viewpoint 7: Kennacraig - Port Ellen Ferry

OS reference:	154091 E 649118 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.50m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	111°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	18.35 km	Correct printed image size:	820 x 130mm	Date and time:	08/10/15 13:00

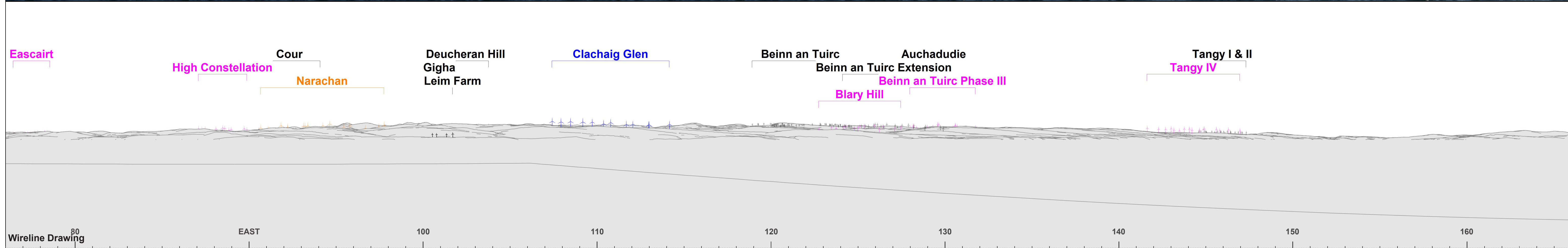
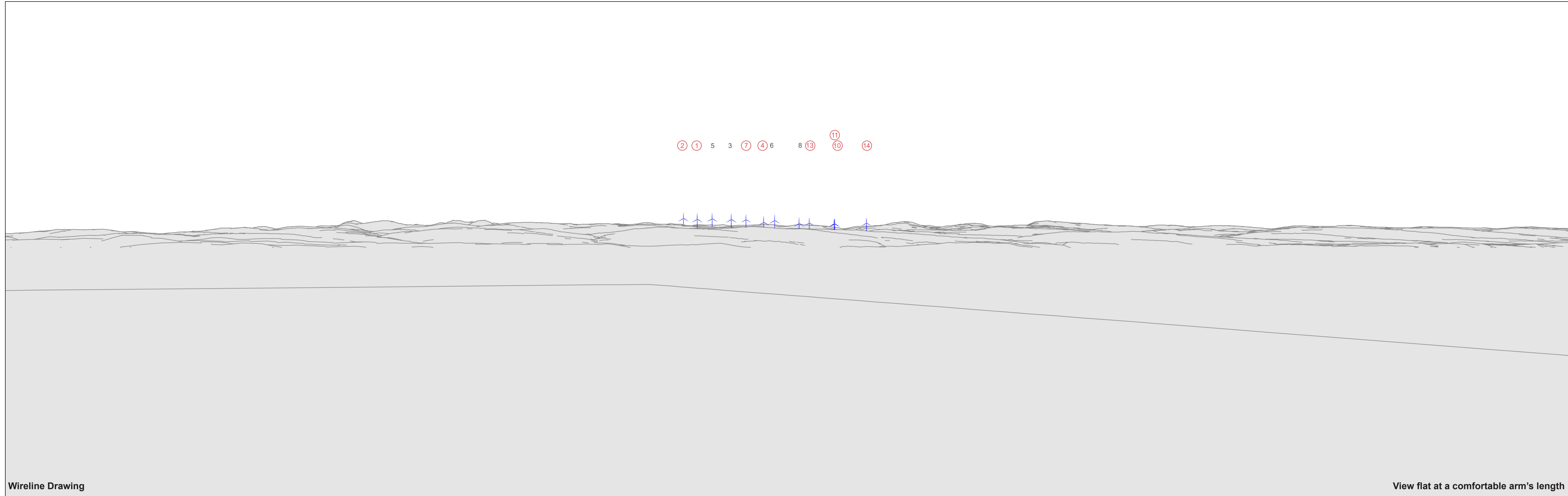


Figure VP7.2(Panel 2 of 2) - Cumulative Wireline Viewpoint 7: Kennacraig - Port Ellen Ferry

OS reference:	154091 E 649118 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.50m AOD	Principal distance:	522 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	111°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	18.35 km	Correct printed image size:	820 x 130mm	Date and time:	08/10/15 13:00



Wireline Drawing

View flat at a comfortable arm's length

Figure VP7.3 - Wireline Drawing
Viewpoint 7: Kennacraig - Port Ellen Ferry

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

OS reference:	154091 E 649118 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.50m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	111°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	18.35 km	Correct printed image size:	820 x 260mm	Date and time:	08/10/15 13:00



Photomontage

View flat at a comfortable arm's length

Figure VP7.4 - Photomontage
Viewpoint 7: Kennacraig - Port Ellen Ferry

OS reference:	154091 E 649118 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 2
Eye Level:	2.50m AOD	Principal distance:	812.5 mm	Lens:	Canon 50mm (f1.4)
Direction of view:	111°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	18.35 km	Correct printed image size:	820 x 260mm	Date and time:	08/10/15 13:00

RWE

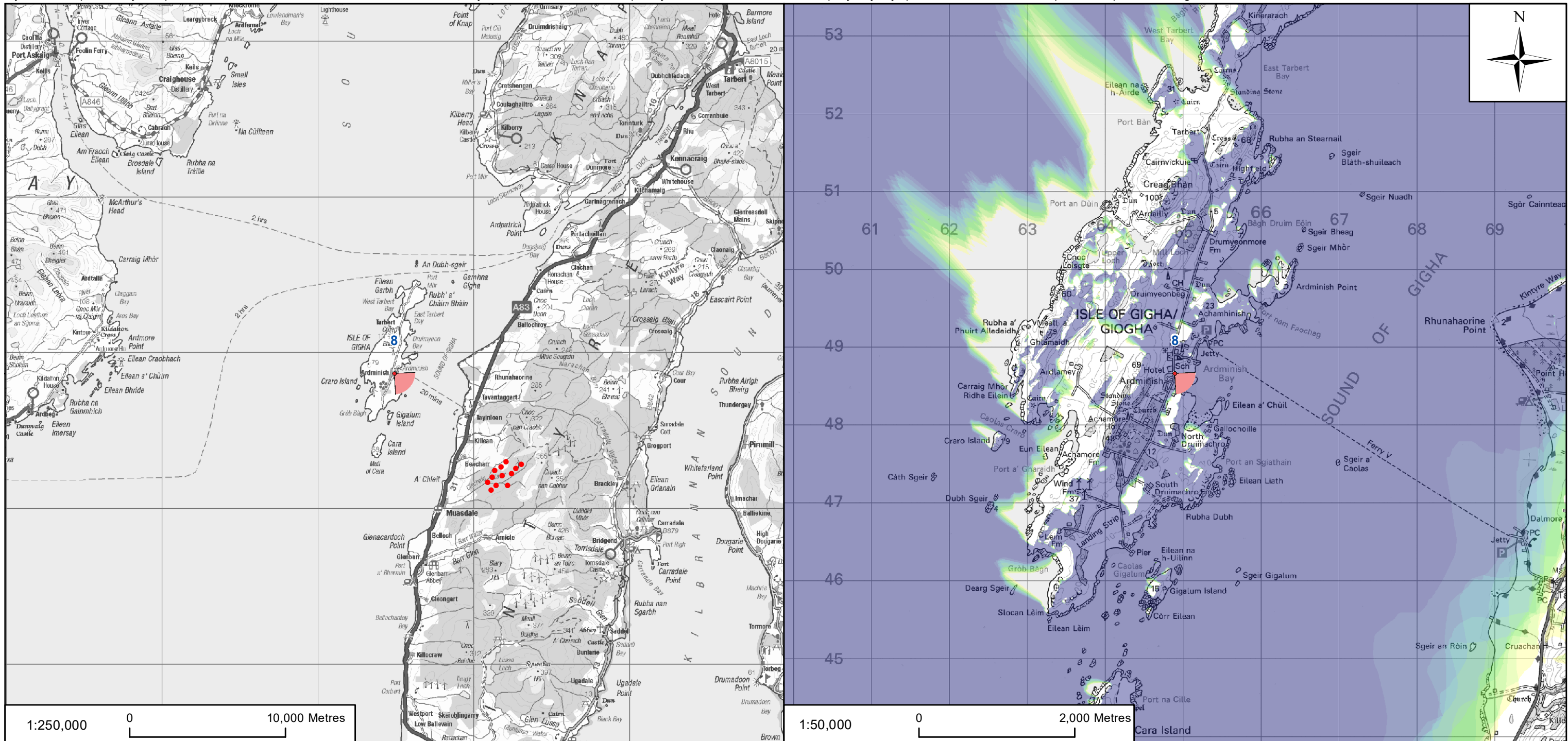
Clachaig Glen Wind Farm

Environmental Impact Assessment Report

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EIAR Visualisations

Figure: VP8.1



1:250,000 0 10,000 Metres

1:50,000 0 2,000 Metres



Tripod Photograph

Viewpoint 8:
From the car park south of Ardmish, opposite the Gigha Hotel.

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 VP8.1 VIEWPOINT 8 - ARDMISH, GIGHA**

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Drawing Number: CG_220105_EIAVP8.1_v1	A3



Clachaig Glen Wind Farm

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EIAR Visualisations

Figures: VP8.2; VP8.3



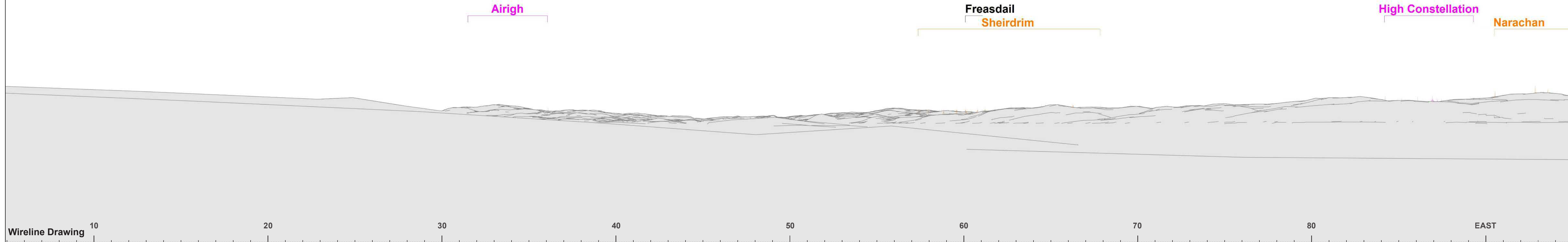


Figure VP8.2(Panel 1 of 3) - Cumulative Wireline
Viewpoint 8: Ardmish, Gigha

OS reference:	164896 E 648662 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	8.29m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	134°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	8.94 km	Correct printed image size:	820 x 130mm	Date and time:	23/08/20 18:03

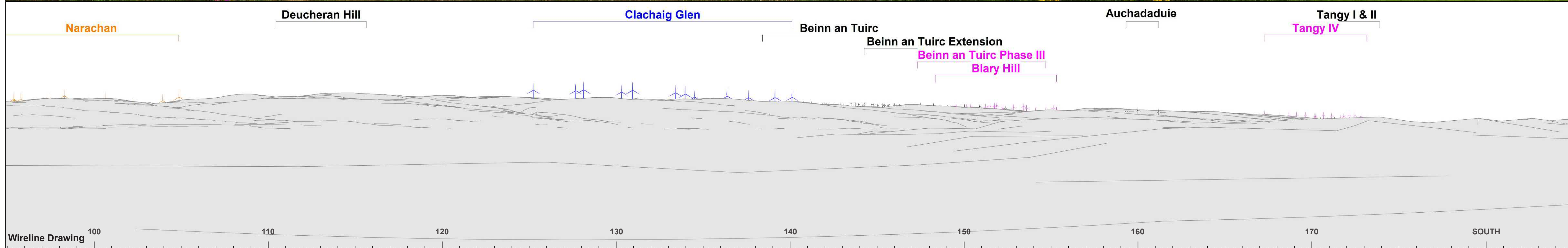


Figure VP8.2(Panel 2 of 3) - Cumulative Wireline Viewpoint 8: Ardminish, Gigha

OS reference:	164896 E 648662 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	8.29m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	134°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	8.94 km	Correct printed image size:	820 x 130mm	Date and time:	23/08/20 18:03

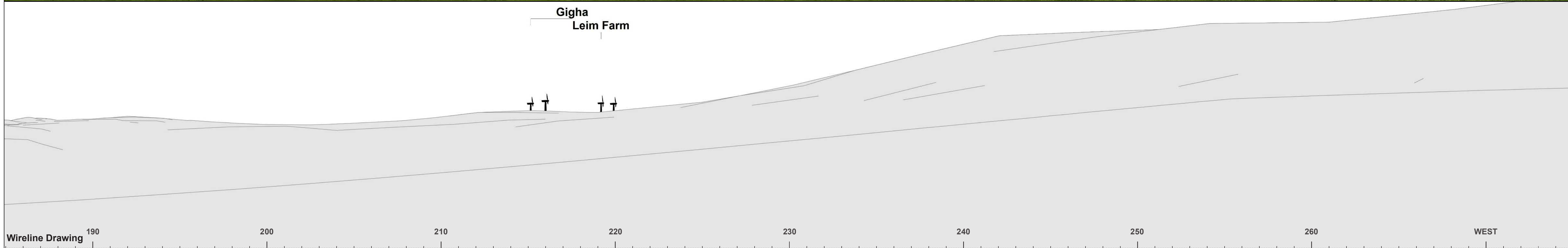
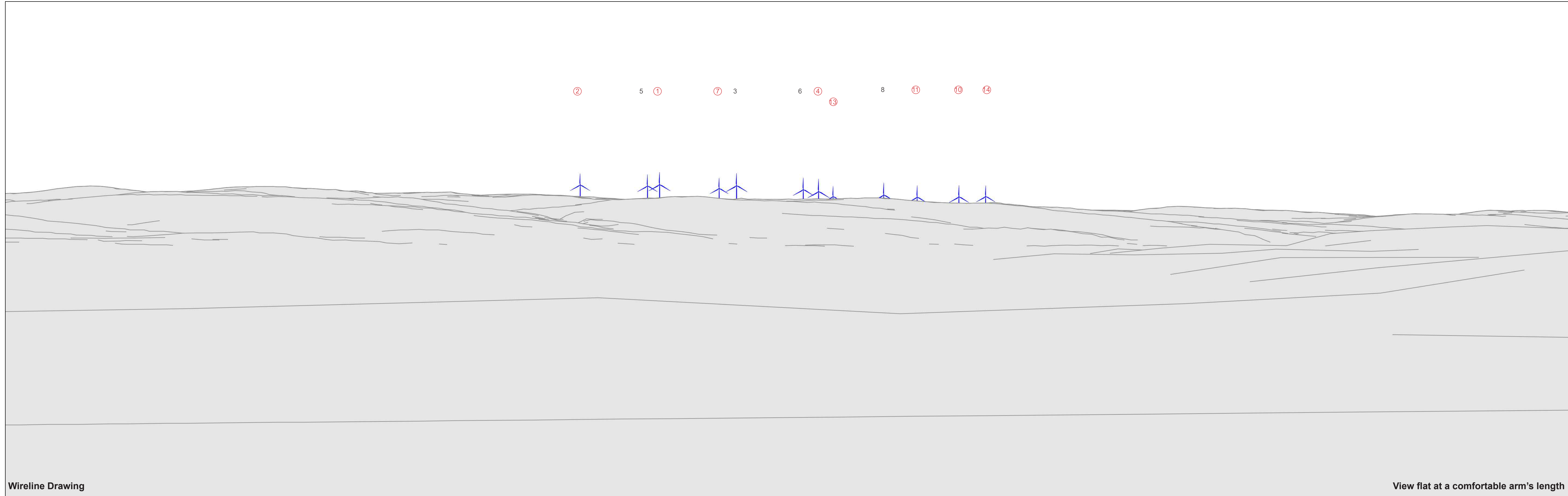


Figure VP8.2(Panel 3 of 3) - Cumulative Wireline
Viewpoint 8: Ardminish, Gigha

OS reference:	164896 E 648662 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	8.29m AOD	Principal distance:	522 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	134°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	8.94 km	Correct printed image size:	820 x 130mm	Date and time:	23/08/20 18:03



Wireline Drawing

View flat at a comfortable arm's length

Figure VP8.3 - Wireline Drawing
Viewpoint 8: Ardminish, Gigha

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

OS reference:	164896 E 648662 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	8.29m AOD	Principal distance:	812.5 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	134°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	8.94 km	Correct printed image size:	820 x 260mm	Date and time:	23/08/20 18:03



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EIAR Visualisations

Figures: VP8.4; VP8.5





Photomontage

View flat at a comfortable arm's length

Figure VP8.4 - Photomontage
Viewpoint 8: Ardminish, Gigha

OS reference:	164896 E 648662 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mk 3
Eye Level:	8.29m AOD	Principal distance:	812.5 mm	Lens:	Sigma 50mm (f1.4)
Direction of view:	134°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m AGL
Nearest turbine:	8.94 km	Correct printed image size:	820 x 260mm	Date and time:	23/08/20 18:03



Photomontage

View flat at a comfortable arm's length

**Figure VP8.5 - Night-Time Photomontage (2000 Candela)
Viewpoint 8: Ardminish, Gigha**

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 in 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 VP8.6 provides a representation of the aviation lighting in the reduced intensity mode.

The apparent intensity of the lighting is also influenced by the vertical angle of view relative to the light source. From this location the vertical angle would result in the apparent intensity being reduced by approximately 75 - 85%, as is indicated in the above image. See Appendix 16.1 (EIAR Volume 3) for the calculated intensity of each aviation light from this location.

OS reference: 164896 E 648662 N
 Eye Level: 8.29m AOD
 Direction of view: 134°
 Nearest turbine: 8.94 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: 23/08/20 21:03



Clachaig Glen Wind Farm

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Visualisations

Figure: VP8.6





Photomontage

View flat at a comfortable arm's length

**Figure VP8.6 - Night-Time Photomontage (200 Candela)
Viewpoint 8: Ardminish, Gigha**

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, EIAR Volume 3 for details). Figure VP8.5 provides a representation of the aviation lighting in the peak intensity mode.

The apparent intensity of the lighting is also influenced by the vertical angle of view relative to the light source. From this location the vertical angle would result in the apparent intensity being reduced by approximately 75 - 85%, as is indicated in the above image. See Appendix 16.1 (EIAR Volume 3) for the calculated intensity of each aviation light from this location.

OS reference: 164896 E 648662 N
 Eye Level: 8.29m AOD
 Direction of view: 134°
 Nearest turbine: 8.94 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: 23/08/20 21:03

