

Corriegarth 2 Wind Farm

Environmental Impact Assessment Report

Volume 2b - LVIA Figures

January 2021



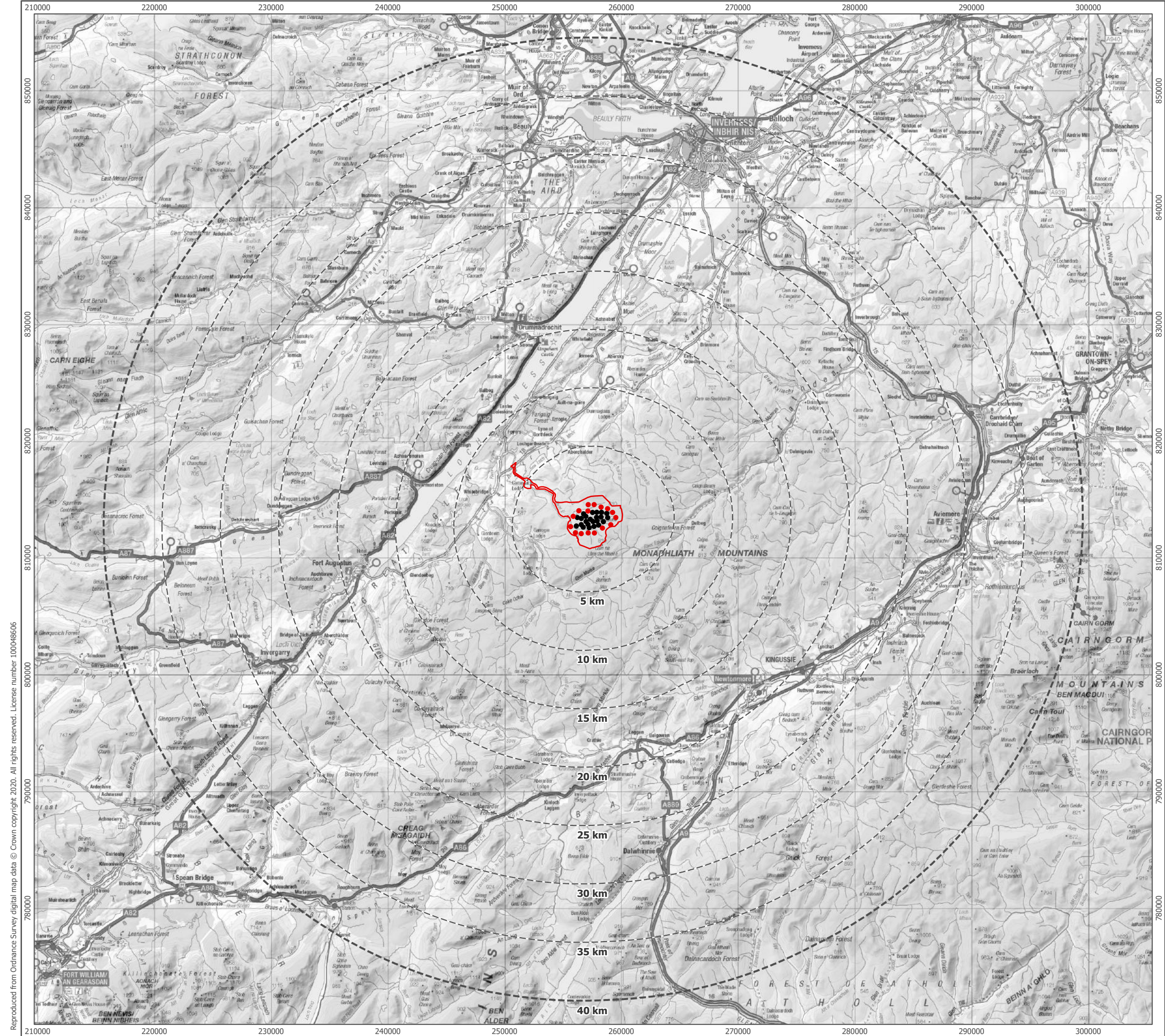
CORRIEGARTH 2 WIND FARM

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- Development boundary
- Existing Corriegarth turbine location
- Corriegarth 2 turbine location
- 5 km intervals from outermost turbines
- 40 km from outermost turbines

1:315,000 Scale @ A3

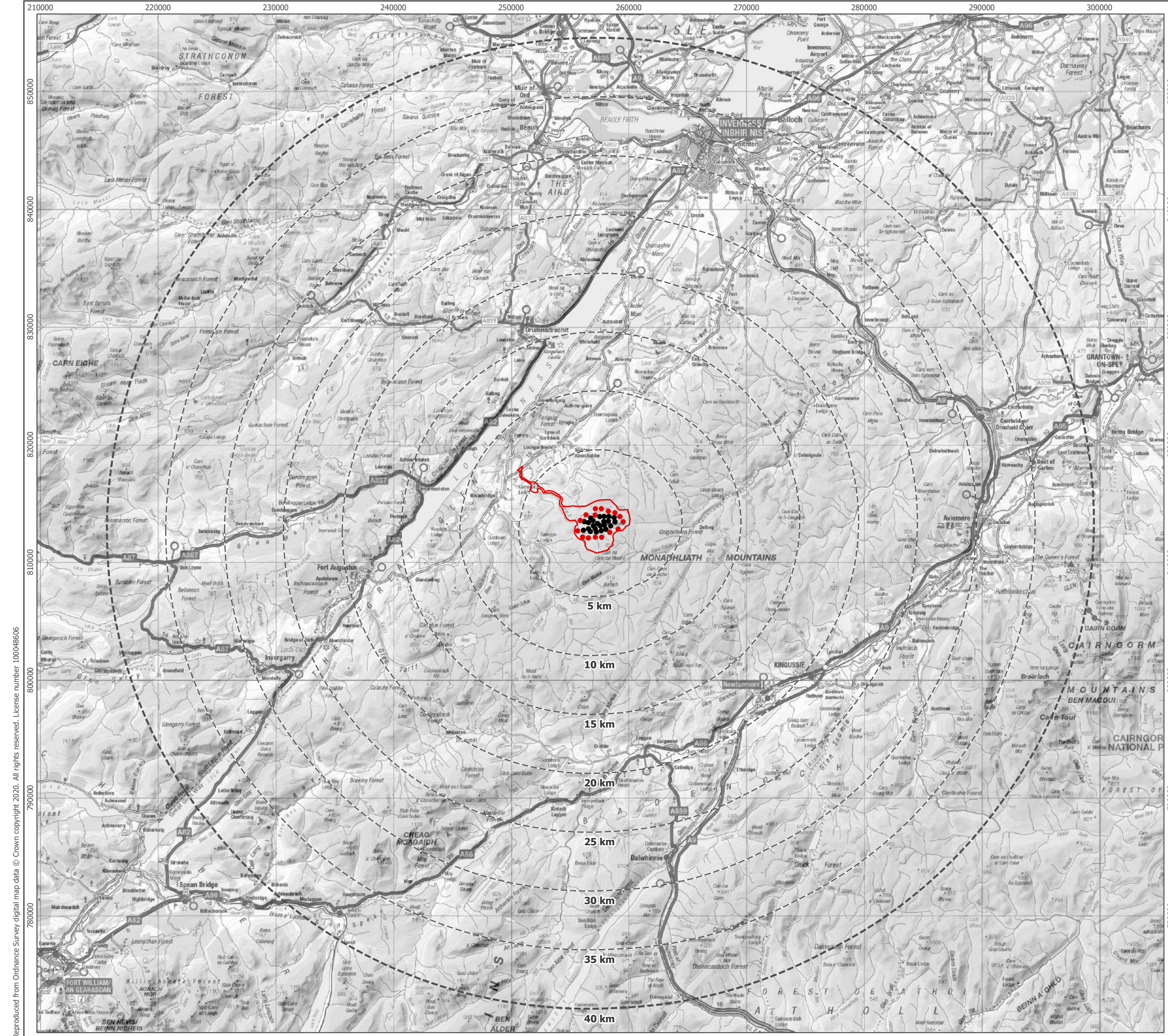
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Checked By: DW Date: 11/09/2020

**Landscape and Visual Impact
Assessment Study Area**
Figure 6.1

**Corriegarth 2 Wind Farm
EIA Report**



Development boundary

Existing Corriegarth turbine location

Corriegarth 2 turbine location

5 km intervals from outermost turbines

40 km from outermost turbines

Comparative ZTV - Corriegarth 2 and Corriegarth

Only Corriegarth is visible

Only Corriegarth 2 is visible

Both wind farms are visible

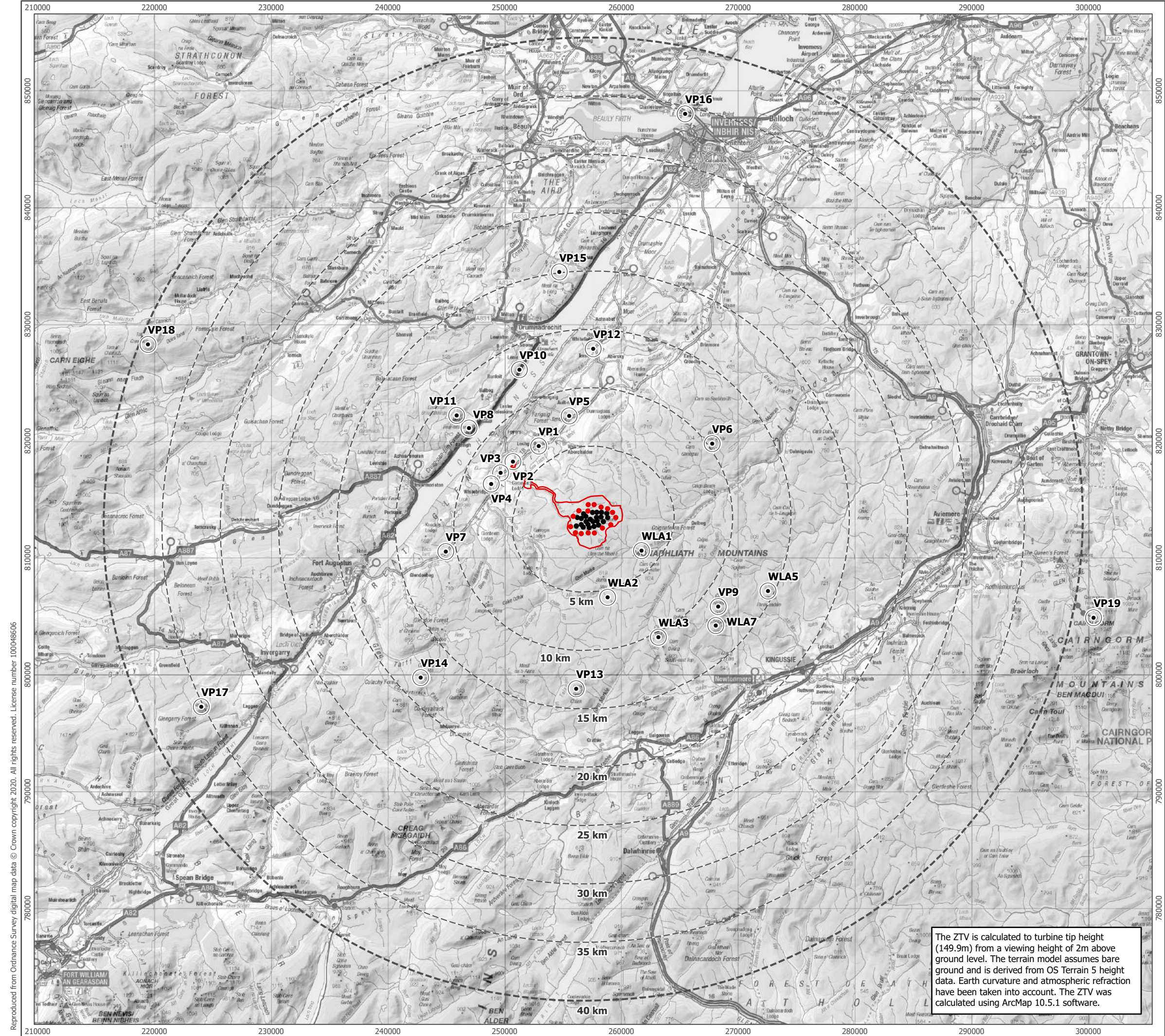
The ZTV illustrates the comparative extent of visibility of the existing Corriegarth wind farm (tip height 120m), Corriegarth 2 wind farm (tip height 149.9m) and where both are visible. Visibility is shown to a distance of 40km from the outermost turbines in all directions. The terrain model assumes bare ground and is derived from OS Terrain 5 height. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

1:315,000 Scale @ A3

0612

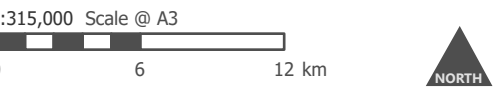
km

Comparative Blade Tip Height (120 m and 149.9 m) Zone of Theoretical Visibility (ZTV) Corriegarth and Corriegarth 2
Figure 6.2**Corriegarth 2 Wind Farm EIA Report**



- Development boundary
- Existing Corriegarth turbine location
- Corriegarth 2 turbine location
- 5 km intervals from outermost turbines
- 40 km from outermost turbines
- Theoretical turbine visibility**
 - 1-4 Turbines are visible
 - 5-8 Turbines are visible
 - 9-12 Turbines are visible
 - 13-16 Turbines are visible
- Viewpoint location

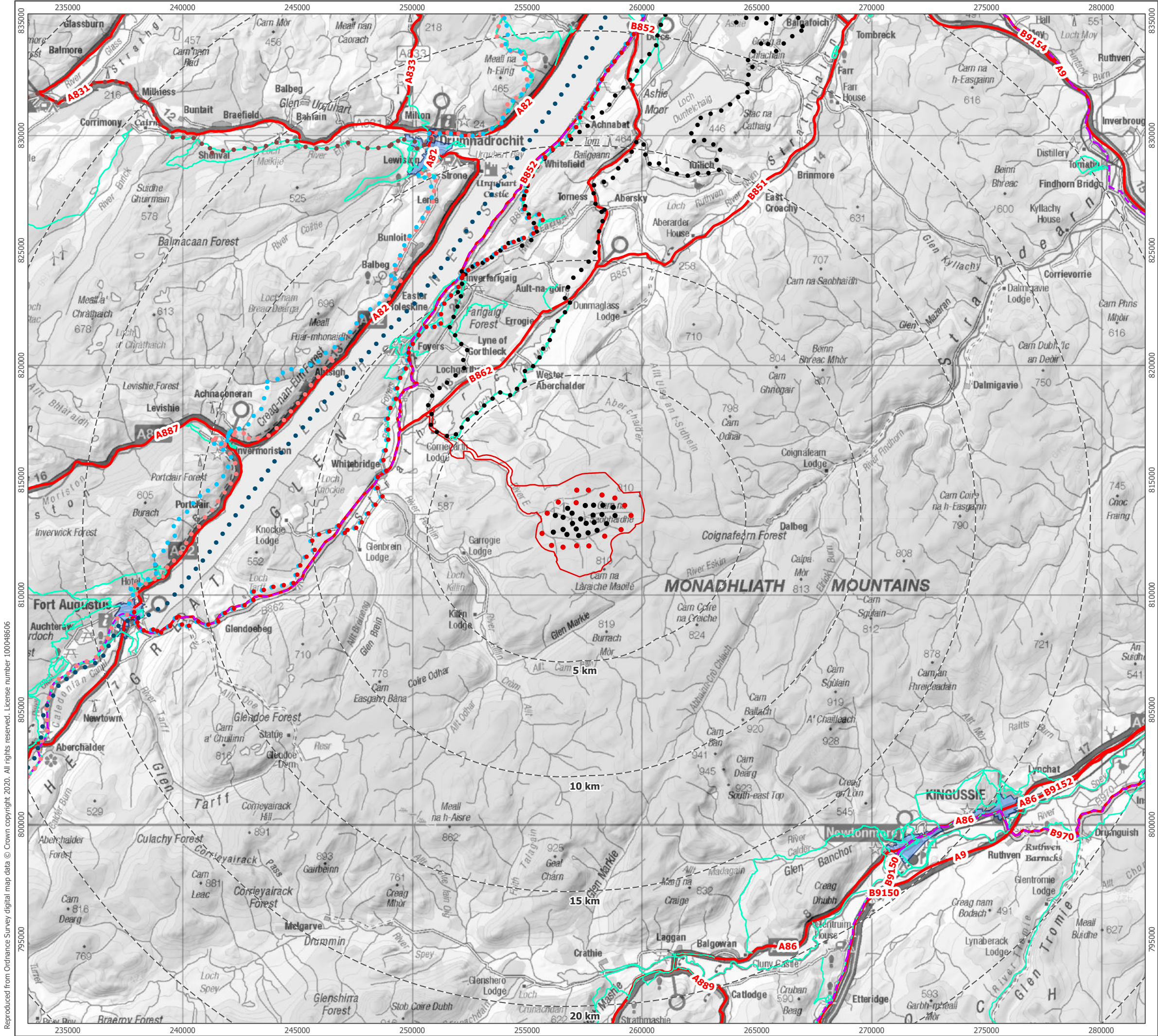
- VP1: Gorthleck
- VP2: Boleskine Parish Church
- VP3: B862 West of Corriegarth Lodge
- VP4: South Loch Ness Trail, north of Whitebridge
- VP5: Errogie
- VP6: Beinn Bhreac Mhor
- VP7: General Wade's Military Road
- VP8: Great Glen Way, East of Creag Dhearg
- VP9: Carn Sgùlain (AESLQ05 / WLA04)
- VP10: A82 Achnahannet
- VP11: Meall Fuar-mhonaigh
- VP12: B862 North of Torness
- VP13: Geal Carn (AESLQ04 / WLA06)
- VP14: Corrieyairack Hill
- VP15: Carn na Leitire
- VP16: North Kessock - A9 northbound picnic area
- VP17: Ben Tee
- VP18: Toll Creagach
- VP19: Ptarmigan Restaurant, Cairngorm
- WLA01: River Eskin Estate track
- WLA02: Allt Cam Ban
- WLA03: Carn Ban (AESLQ01)
- WLA05: Càrn an Fhreiceadain (AESLQ02)
- WLA07: A'Chailleach (AESLQ03)



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Blade Tip Height (149.9 m) Zone of Theoretical Visibility (ZTV) and Viewpoint Locations Figure 6.3a

Corriegarth 2 Wind Farm EIA Report



- Development boundary
- Existing Corriegarth turbine location
- Corriegarth 2 turbine location
- 5 km intervals from outermost turbines
- Recreation**
 - National Cycle Network
 - Great Glen Canoe Trail
 - Great Glen Way
 - Loch Ness 360
 - South Loch Ness Trail
 - Affric Kintail Way
 - Trail Of The Seven Lochs
- A and B Roads
- Core Path
- Settlement
- Theoretical turbine visibility**
 - 1-4 Turbines are visible
 - 5-8 Turbines are visible
 - 9-12 Turbines are visible
 - 13-16 Turbines are visible

The ZTV is calculated to turbine tip height (149.9m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

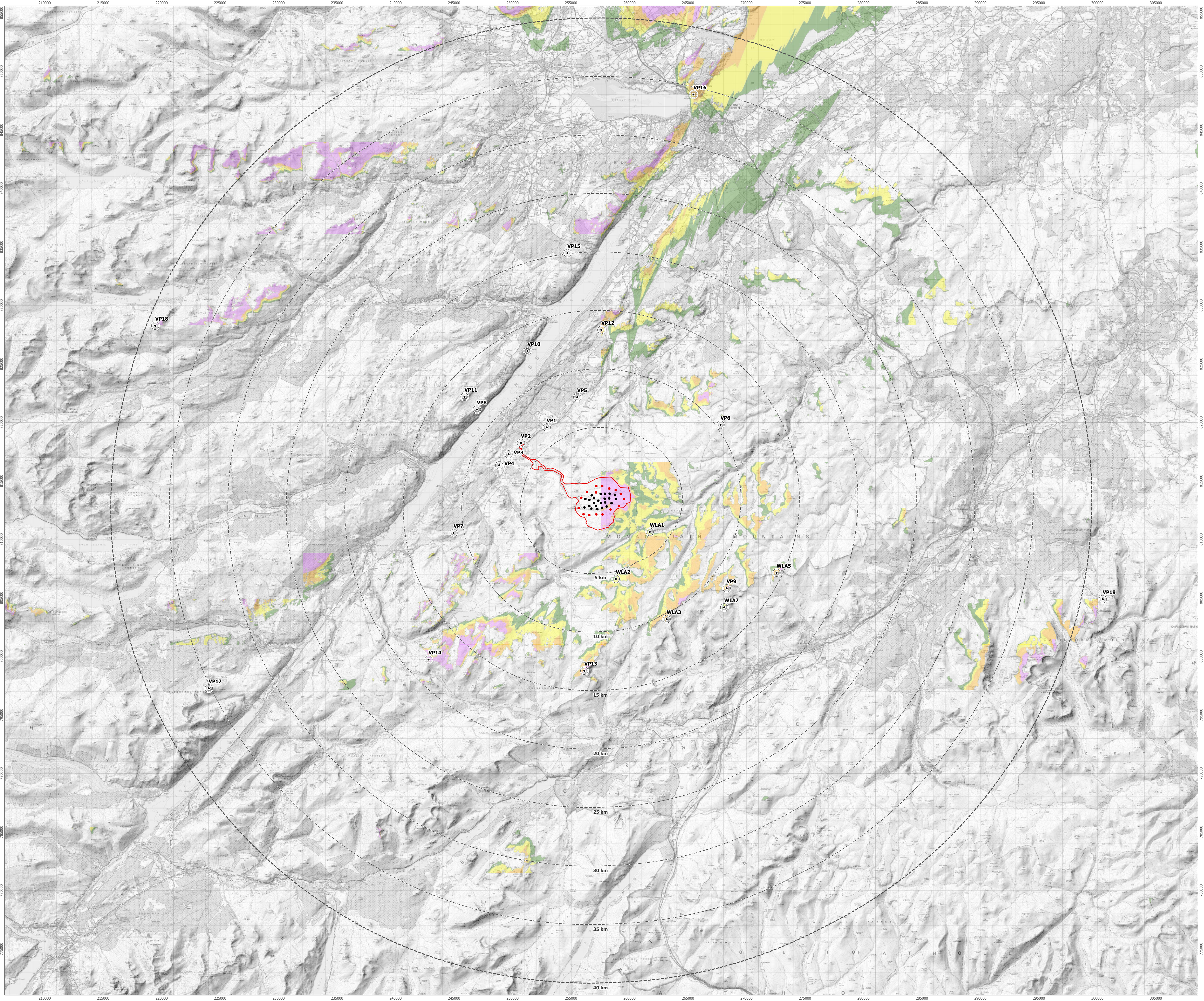


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Blade Tip Height (149.9 m) Zone of Theoretical Visibility (ZTV) and Visual Receptors
Figure 6.3b

Corriegarth 2 Wind Farm EIA Report

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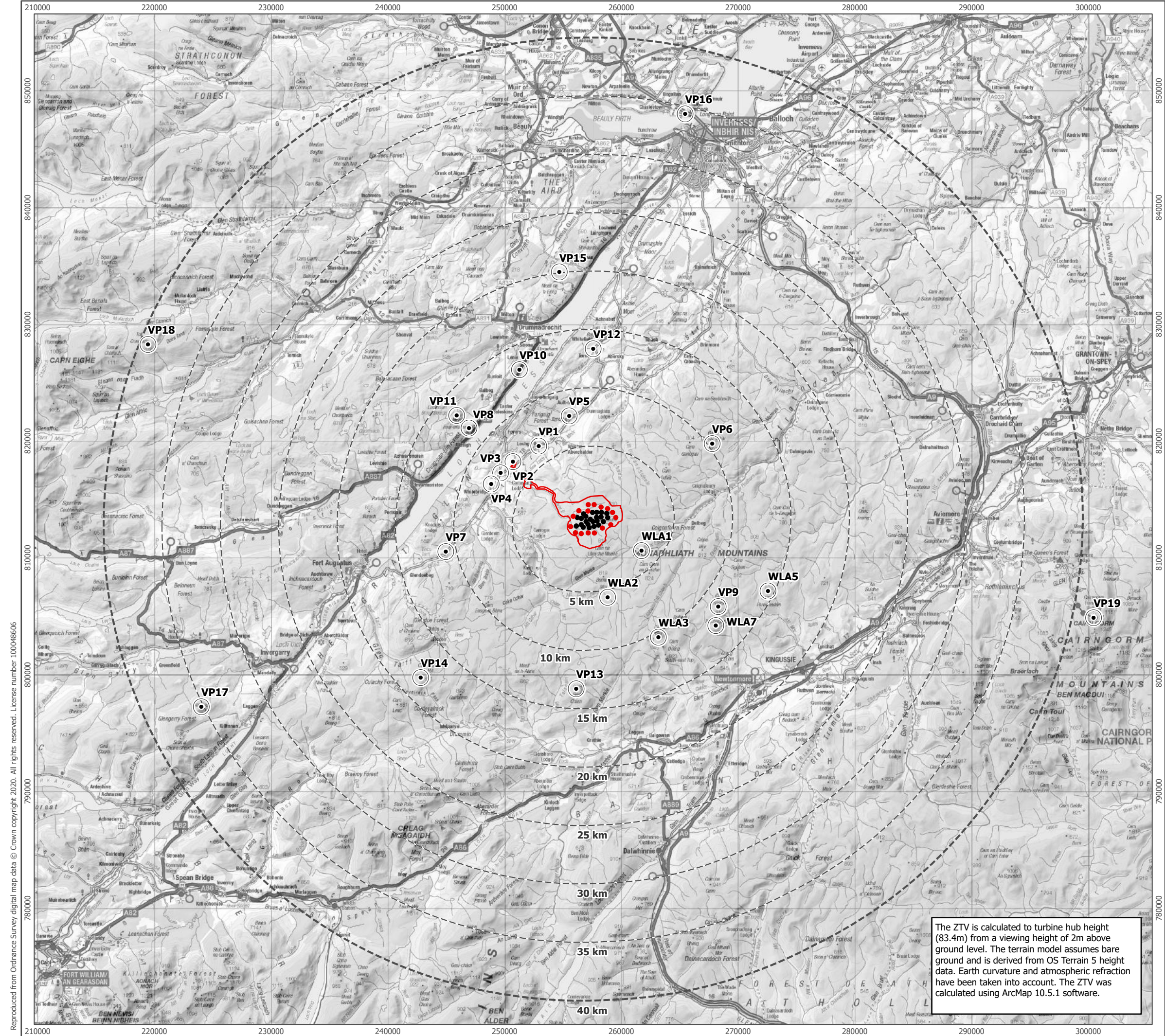
- Development boundary
- Corriegarth 2 turbine location
- Existing Corriegarth turbine location
- 5 km intervals from outermost turbines
- 40 km from outermost turbines
- Theoretical turbine visibility**
 - 1-4 Turbines are visible
 - 5-8 Turbines are visible
 - 9-12 Turbines are visible
 - 13-16 Turbines are visible
- Viewpoint location
 - VP1: Gorthleck
 - VP2: Boleskine Parish Church
 - VP3: B862 West of Corriegarth Lodge
 - VP4: South Loch Ness Trail, north of Whitebridge
 - VP5: Errogie
 - VP6: Beinn Bhreac Mhor
 - VP7: General Wade's Military Road
 - VP8: Great Glen Way, East of Creag Dhearg
 - VP9: Carn Sgùlain (AESLQ05 / WLA04)
 - VP10: A82 Achnahannet
 - VP11: Meall Fuar-mhonaigh
 - VP12: B862 North of Torness
 - VP13: Geal Charn (AESLQ04 / WLA06)
 - VP14: Corrieyairack Hill
 - VP15: Carn na Leitire
 - VP16: North Kessock - A9 northbound picnic area
 - VP17: Ben Tee
 - VP18: Toll Creagach
 - VP19: Ptarmigan Restaurant, Cairngorm
- WLA01: River Eskin Estate track
- WLA02: Allt Cam Ban
- WLA03: Carn Ban (AESLQ01)
- WLA05: Càrn an Fhriceadain (AESLQ02)
- WLA07: A'Chailleach (AESLQ03)

The ZTV is calculated to turbine tip height (149.9m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

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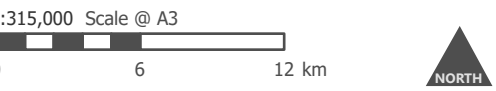
Blade Tip Height (149.9 m) Zone of Theoretical Visibility (ZTV) and Viewpoint Locations
Figure 6.3c

Corriegarth 2 Wind Farm
EIA Report



- Development boundary
- Corriegarth 2 turbine location
- Existing Corriegarth turbine location
- 5 km intervals from outermost turbines
- 40 km from outermost turbines
- Theoretical turbine visibility**
 - 1-4 Turbines are visible
 - 5-8 Turbines are visible
 - 9-12 Turbines are visible
 - 13-16 Turbines are visible
- Viewpoint location

- VP1: Gorthleck
- VP2: Boleskine Parish Church
- VP3: B862 West of Corriegarth Lodge
- VP4: South Loch Ness Trail, north of Whitebridge
- VP5: Errogie
- VP6: Beinn Bhreac Mhor
- VP7: General Wade's Military Road
- VP8: Great Glen Way, East of Creag Dhearg
- VP9: Carn Sgulain (AESLQ05 / WLA04)
- VP10: A82 Achnahannet
- VP11: Meall Fuar-mhonaidh
- VP12: B862 North of Torness
- VP13: Geal Charn (AESLQ04 / WLA06)
- VP14: Corrieyairack Hill
- VP15: Carn na Leitire
- VP16: North Kessock - A9 northbound picnic area
- VP17: Ben Tee
- VP18: Toll Creagach
- VP19: Ptarmigan Restaurant, Cairngorm
- WLA01: River Eskin Estate track
- WLA02: Allt Cam Ban
- WLA03: Carn Ban (AESLQ01)
- WLA05: Càrn an Fhreiceadain (AESLQ02)
- WLA07: A'Chailleach (AESLQ03)

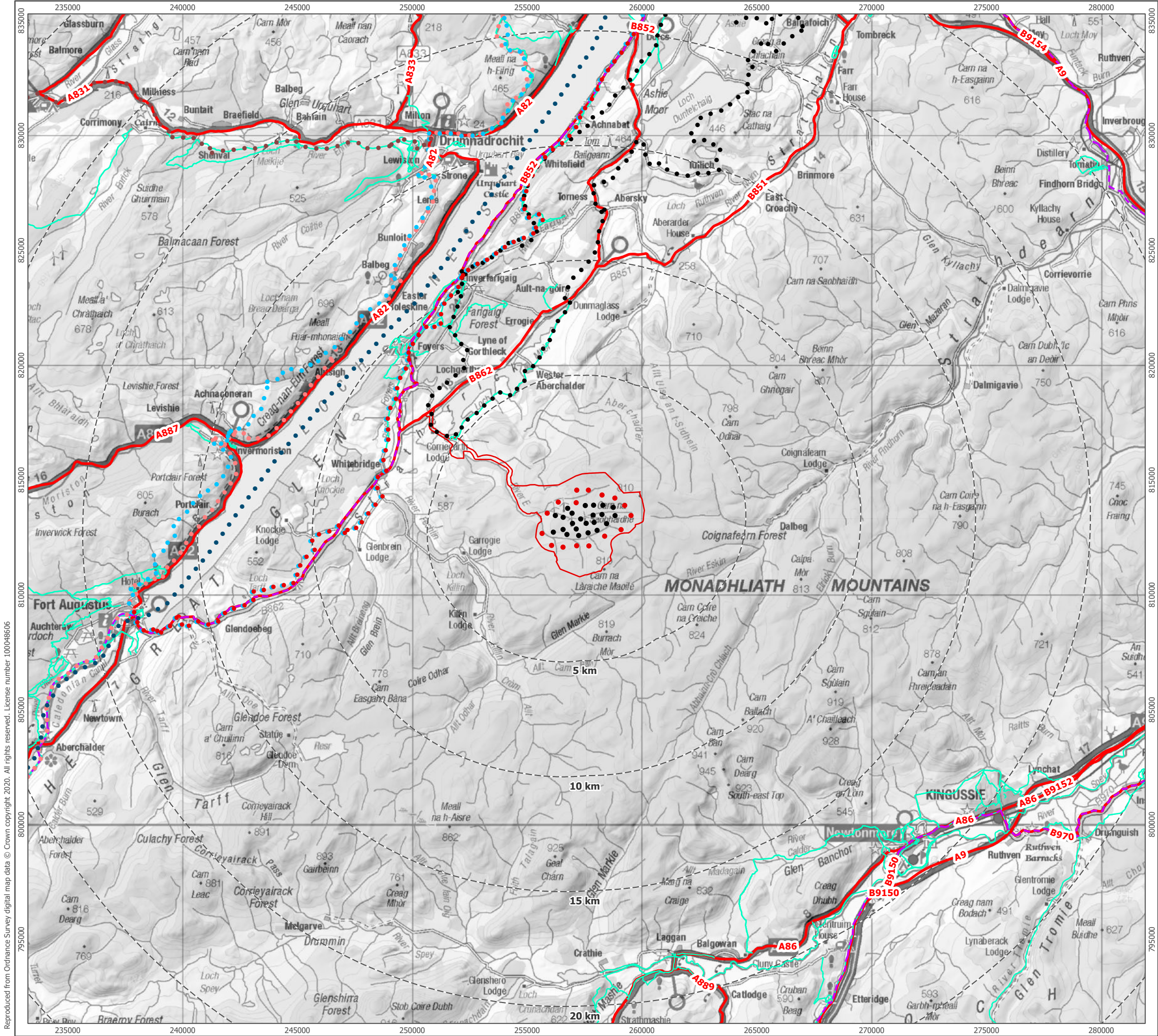


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Hub Height (83.4m) Zone of Theoretical Visibility (ZTV) and Viewpoint Locations Figure 6.4a

Corriegarth 2 Wind Farm EIA Report

The ZTV is calculated to turbine hub height (83.4m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



- Development boundary
- Existing Corriegarth turbine location
- Corriegarth 2 turbine location
- 5 km intervals from outermost turbines
- Recreation**
 - National Cycle Network
 - Great Glen Canoe Trail
 - Great Glen Way
 - South Loch Ness Trail
 - Loch Ness 360
 - Affric Kintail Way
 - Trail Of The Seven Lochs
- A and B Roads
- Core Path
- Theoretical turbine visibility**
 - 1-4 Turbines are visible
 - 5-8 Turbines are visible
 - 9-12 Turbines are visible
 - 13-16 Turbines are visible

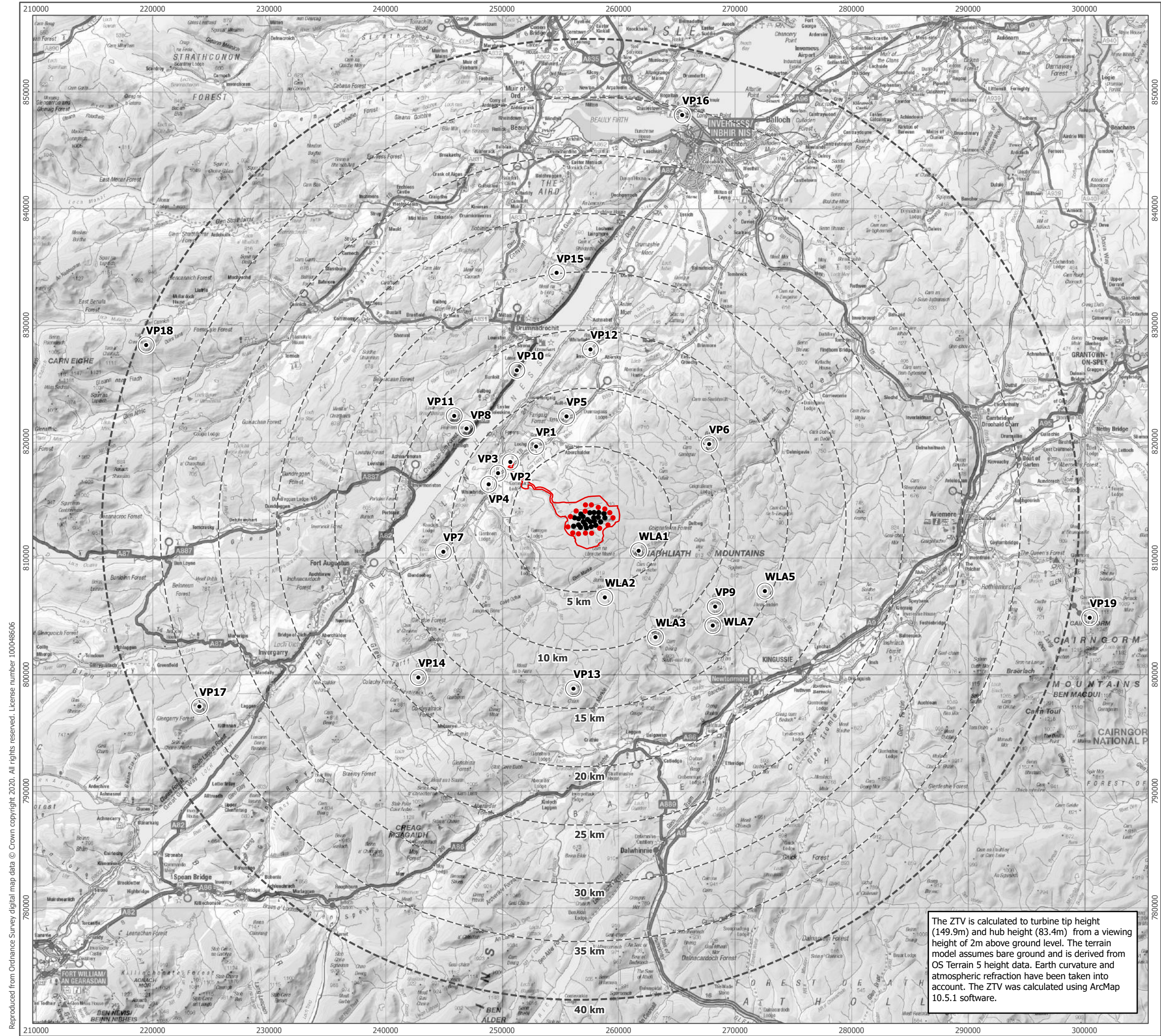
The ZTV is calculated to turbine hub height (83.4m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



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Hub Height (83.4 m) Zone of Theoretical Visibility (ZTV) and Visual Receptors
Figure 6.4b

**Corriegarth 2 Wind Farm
EIA Report**



- Development boundary
- Existing Corriegarth turbine location
- Corriegarth 2 turbine location
- 5 km intervals from outermost turbines
- 40 km from outermost turbines
- Comparative ZTV - Hub and Tip Visibility**
- Only Tip Visible
- Both Hub and Tip Visible
- Viewpoint location

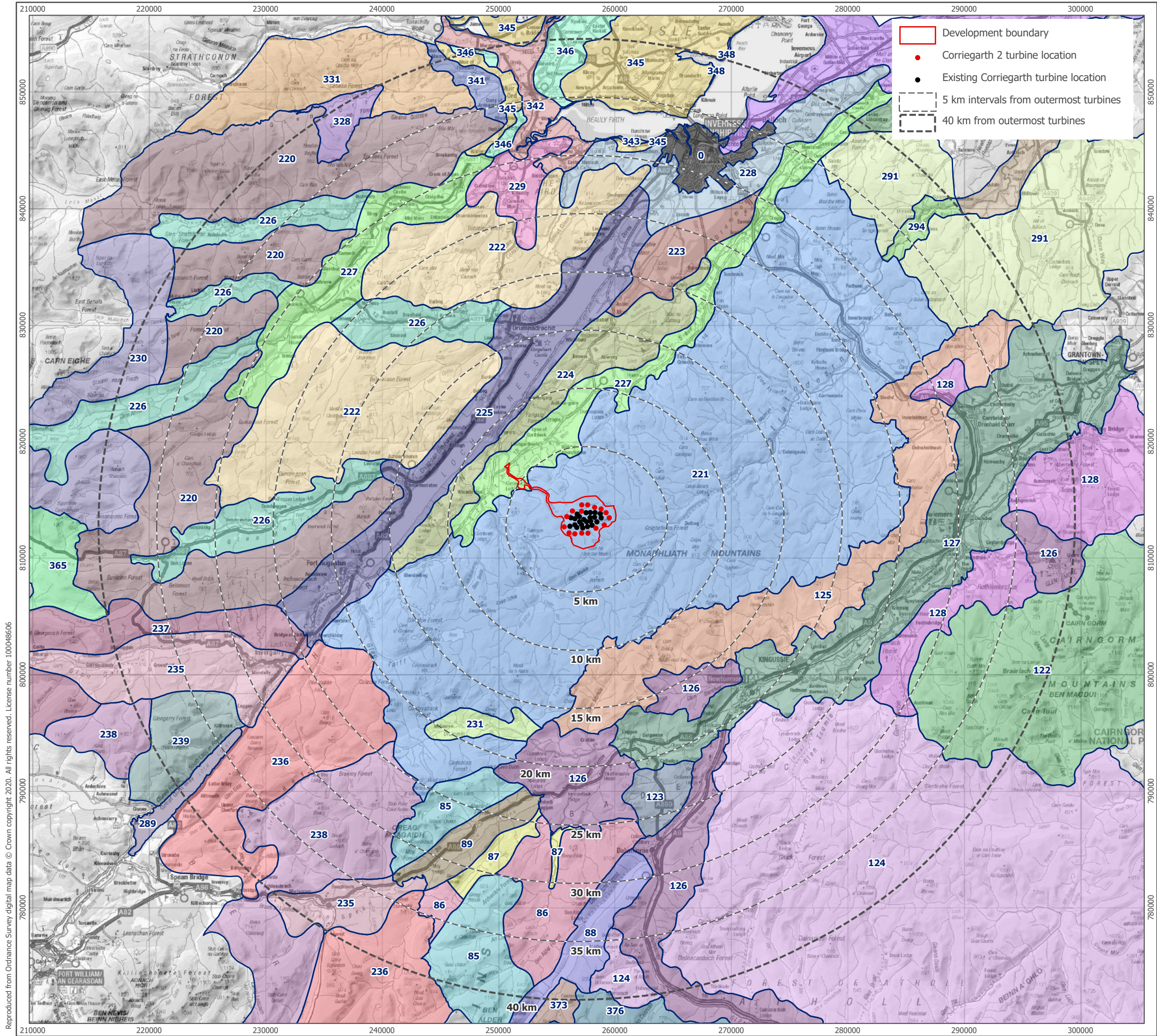
- VP1: Gorthleck
- VP2: Boleskine Parish Church
- VP3: B862 West of Corriegarth Lodge
- VP4: South Loch Ness Trail, north of Whitebridge
- VP5: Errogie
- VP6: Beinn Bhreac Mhor
- VP7: General Wade's Military Road
- VP8: Great Glen Way, East of Creag Dhearg
- VP9: Carn Sgulain (AESLQ05 / WLA04)
- VP10: A82 Achnahannet
- VP11: Meall Fuar-mhonaigh
- VP12: B862 North of Torness
- VP13: Geal Charn (AESLQ04 / WLA06)
- VP14: Corriegairack Hill
- VP15: Carn na Leitire
- VP16: North Kessock - A9 northbound picnic area
- VP17: Ben Tee
- VP18: Toll Creagach
- VP19: Ptarmigan Restaurant, Cairngorm
- WLA01: River Eskin Estate track
- WLA02: Allt Cam Ban
- WLA03: Carn Ban (AESLQ01)
- WLA05: Càrn an Fhriceadain (AESLQ02)
- WLA07: A'Chailleach (AESLQ03)

1:315,000 Scale @ A3	
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Checked By: DW	Date: 11/09/2020

Blade Tip Height (149.9 m) and Hub Height (83.4 m) Comparative Zone of Theoretical Visibility (ZTV) and Viewpoint Locations
Figure 6.5

Corriegarth 2 Wind Farm EIA Report

The ZTV is calculated to turbine tip height (149.9m) and hub height (83.4m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



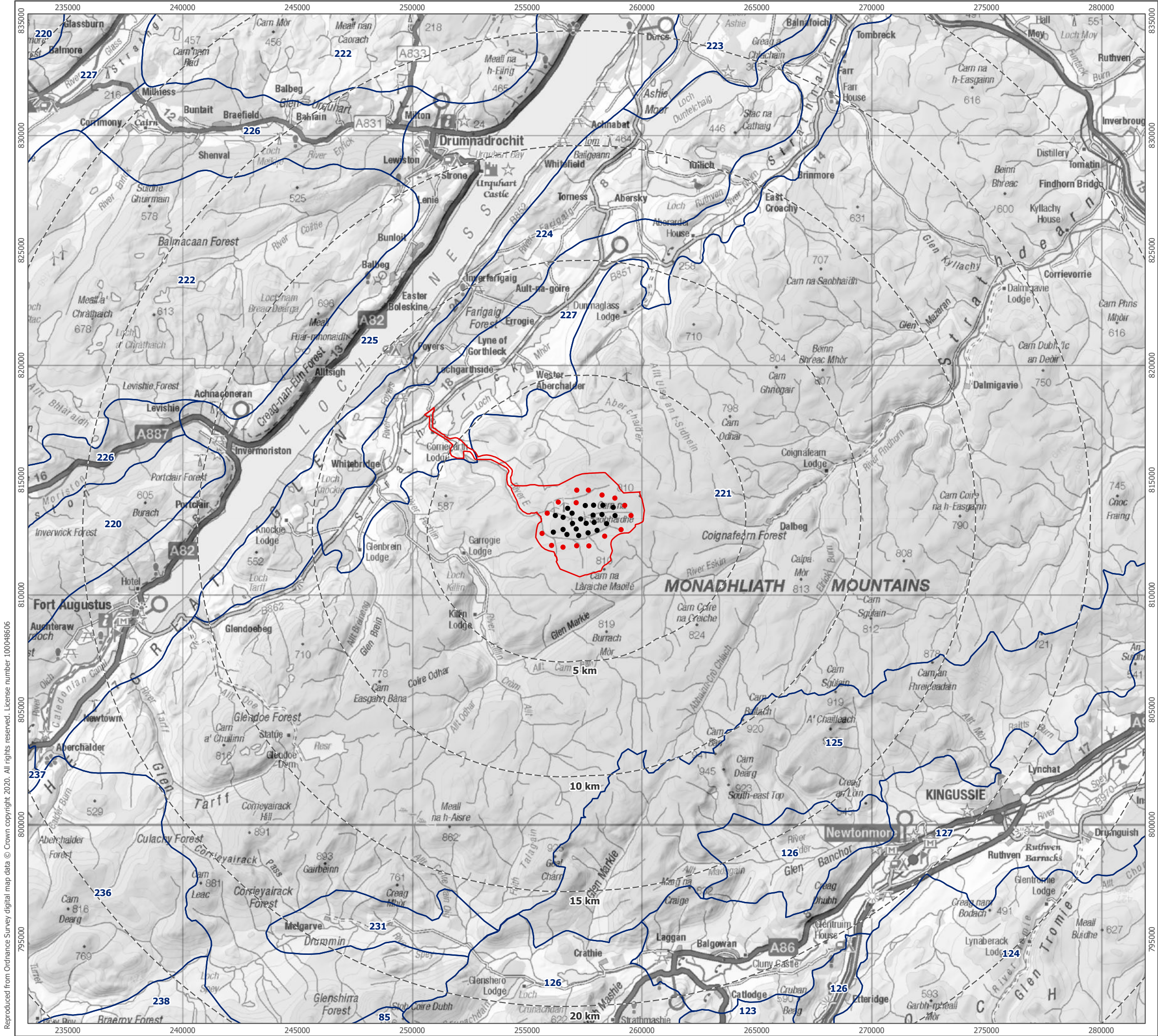
- Landscape Character Types (SNH, 2019)**
- 85, Isolated Mountain Plateau
 - 86, Smooth Rounded Hills - Badenoch & Strathspey
 - 87, Small Craggy Knolls and Hills
 - 88, Loch and Glen
 - 89, Broad Loch and Glen
 - 122, Mountain Massif - Cairngorms
 - 123, Smooth Rounded Hills - Cairngorms
 - 124, Summits and Plateaux - Cairngorms
 - 125, Rolling Uplands - Cairngorms
 - 126, Upland Glen - Cairngorms
 - 127, Upland Strath
 - 128, Forested Upland Fringe
 - 220, Rugged Massif - Inverness
 - 221, Rolling Uplands - Inverness
 - 222, Rocky Moorland Plateau - Inverness
 - 223, Flat Moorland Plateau with Woodland
 - 224, Farmed and Wooded Foothills
 - 225, Broad Steep-Sided Glen
 - 226, Wooded Glen - Inverness
 - 227, Farmed Strath - Inverness
 - 228, Rolling Farmland and Woodland
 - 229, Enclosed Farmland
 - 230, Interlocking Sweeping Peaks - Inverness
 - 231, Upland Glen - Inverness
 - 235, Broad Forested Strath
 - 236, Smooth Moorland Ridges
 - 237, Rocky Moorland - Lochaber
 - 238, Rugged Massif - Lochaber
 - 239, Interlocking Sweeping Peaks - Lochaber
 - 284, Coastal Farmlands - Moray & Nairn
 - 285, Rolling Farmland and Forests - Moray & Nairn
 - 286, Narrow Wooded Valley - Moray & Nairn
 - 289, Upland Farmed Valleys
 - 291, Open Rolling Upland
 - 294, Upland Valleys - Moray & Nairn
 - 328, Rugged Mountain Massif - Ross & Cromarty
 - 331, Rounded Rocky Hills - Ross & Cromarty
 - 341, Forest Edge Farming
 - 342, Farmed River Plains
 - 343, Coastal Shelf
 - 345, Farmed and Forested Slopes - Ross & Cromarty
 - 346, Open Farmed Slopes
 - 348, Cliffs and Rocky Coasts - Ross & Cromarty
 - 365, Rugged Massif - Skye & Lochalsh
 - 373, Upper Upland Glens with Lochs
 - 376, Summits and Plateaux - Tayside
 - Urban

1:315,000 Scale @ A3

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Landscape Character Types
Figure 6.6a

Corriegarth 2 Wind Farm
EIA Report



Development boundary

Existing Corriegarth turbine location

Corriegarth 2 turbine location

5 km intervals from outermost turbines

40 km from outermost turbines

Landscape Character Types (SNH, 2019)

85, Isolated Mountain Plateau

123, Smooth Rounded Hills - Cairngorms

124, Summits and Plateaux - Cairngorms

125, Rolling Uplands - Cairngorms

126, Upland Glen - Cairngorms

127, Upland Strath

220, Rugged Massif - Inverness

221, Rolling Uplands - Inverness

222, Rocky Moorland Plateau - Inverness

223, Flat Moorland Plateau with Woodland

224, Farmed and Wooded Foothills

225, Broad Steep-Sided Glen

226, Wooded Glen - Inverness

227, Farmed Strath - Inverness

231, Upland Glen - Inverness

236, Smooth Moorland Ridges

237, Rocky Moorland - Lochaber

238, Rugged Massif - Lochaber

Theoretical turbine visibility

1-4 Turbines are visible

5-8 Turbines are visible

9-12 Turbines are visible

13-16 Turbines are visible

The ZTV is calculated to turbine tip height (149.9m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

1:160,000 Scale @ A3

0 3 6 km

NORTH

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Ref: 10792-6.6b

Checked By: DW

Date: 11/09/2020

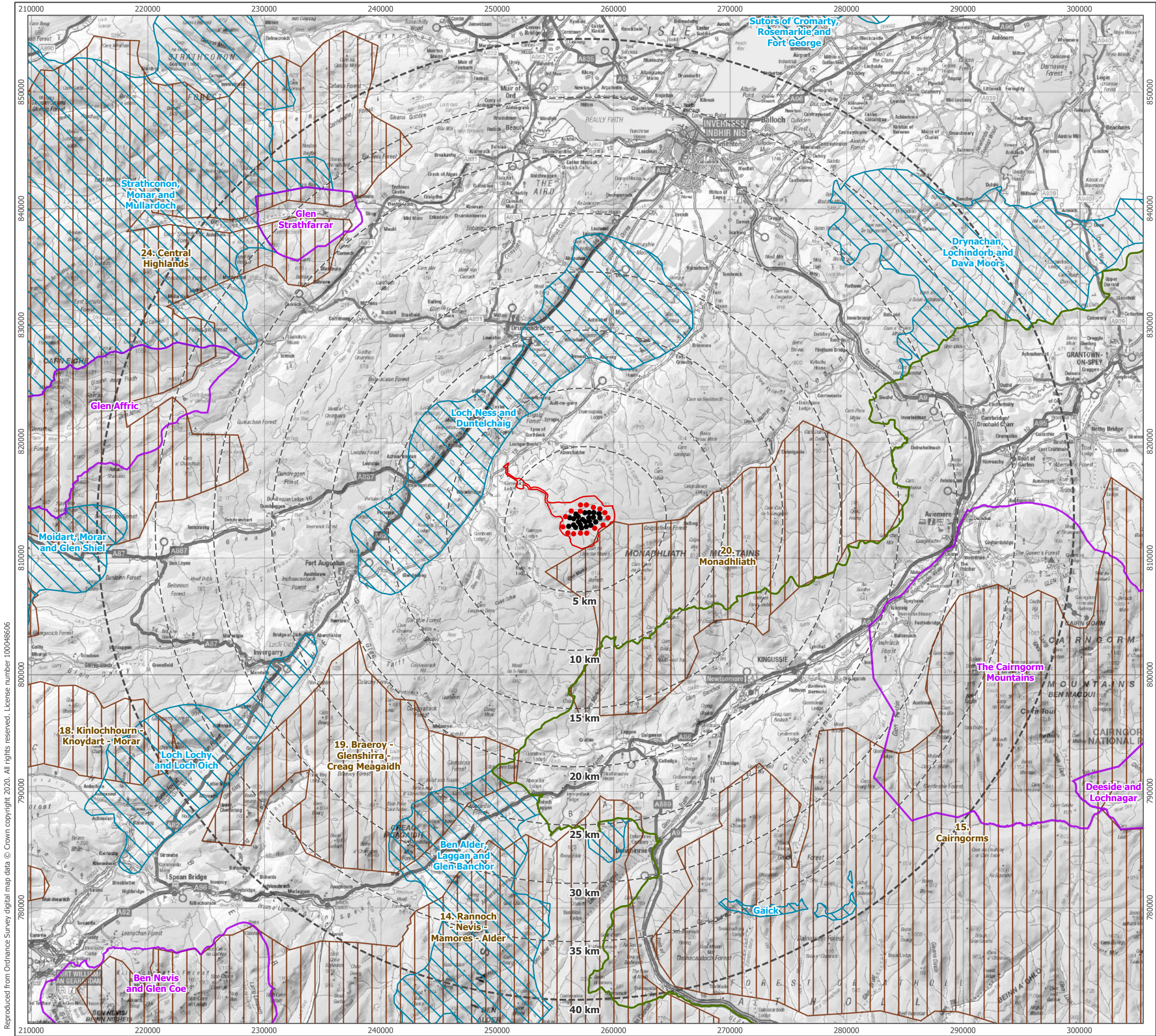
Landscape Character Types with Blade Tip Height (149.9 m) Zone of Theoretical Visibility (ZTV)

Figure 6.6b

Corriegarth 2 Wind Farm

EIA Report

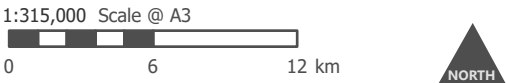
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- Development boundary
- Existing Corriegarth turbine location
- Corriegarth 2 turbine location
- 5 km intervals from outermost turbines
- 40 km from outermost turbines

Designated Landscapes and Wild Land Areas

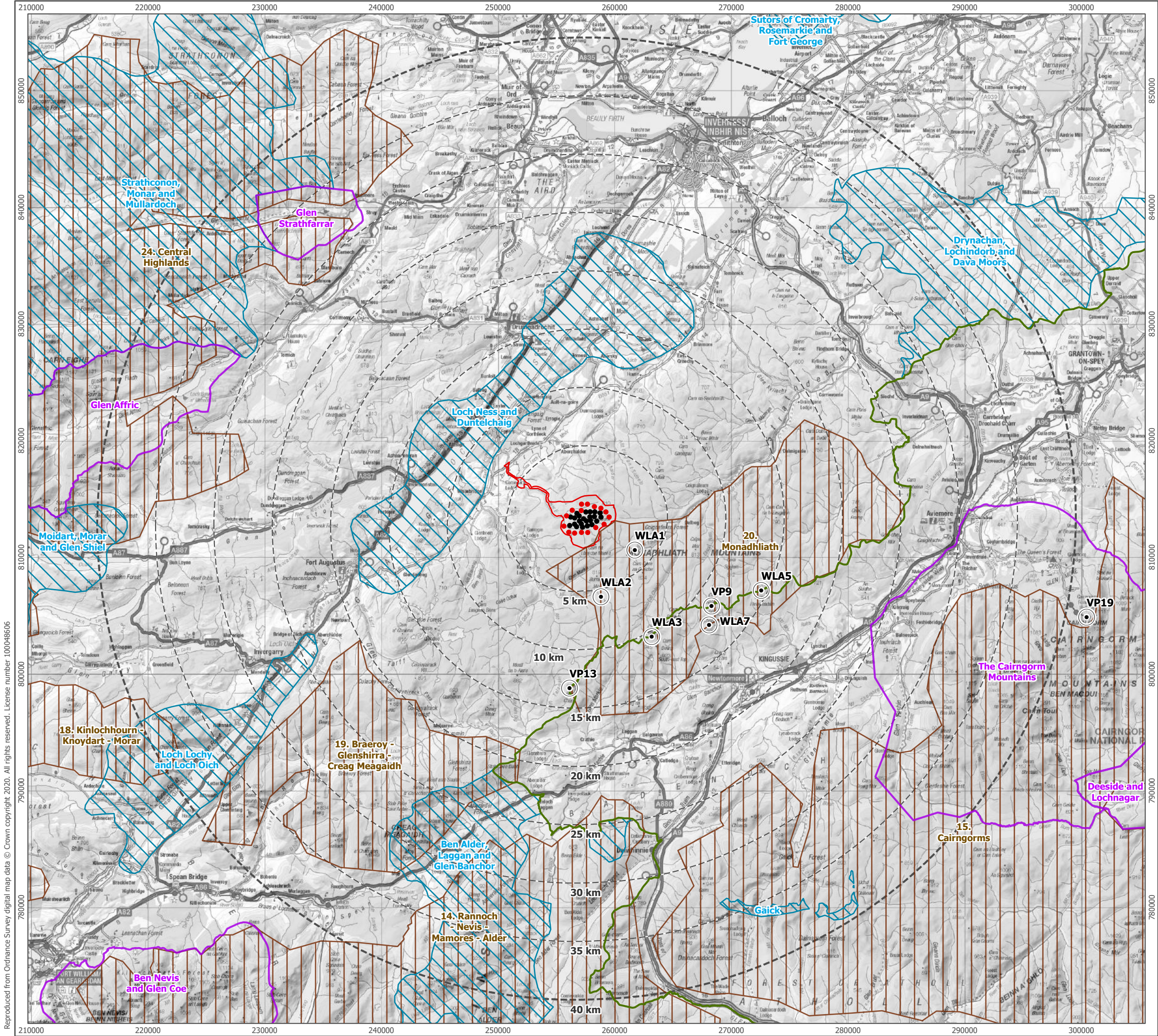
- Cairngorms National Park
- National Scenic Area
- Special Landscape Area
- Wild Land



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Designated Landscapes and Wild Land Areas
Figure 6.7a

Corriegarth 2 Wind Farm
EIA Report



Development boundary

Existing Corriegarth turbine location

Corriegarth 2 turbine location

5 km intervals from outermost turbines

40 km from outermost turbines

Theoretical turbine visibility

1-4 Turbines are visible

5-8 Turbines are visible

9-12 Turbines are visible

13-16 Turbines are visible

Viewpoint location

VP9: Carn Sgùlain 9 (AESLQ5 / WLA4)

VP13: Geal Charn 13 (AESLQ4 / WLA6)

VP19: Ptarmigan Restaurant, Cairngorm (AESLQ6)

WLA1: River Eskin Estate track

WLA2: Allt Cam Ban

WLA3: Carn Ban (AESLQ1)

WLA5: Càrn an Fhriceadain (AESLQ2)

WLA7: A'Chailleach (AESLQ3)

Designated Landscapes and Wild Land Areas

Cairngorms National Park

National Scenic Area

Special Landscape Area

Wild Land

The ZTV is calculated to turbine tip height (149.9m) from a viewing height of 2m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 5 height data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

1:315,000 Scale @ A3

0 6 12 km

NORTH

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Designated Landscapes and Wild Land Areas with Blade Tip Height (149.9 m)

Zone of Theoretical Visibility (ZTV)

Figure 6.7b

Corriegarth 2 Wind Farm

EIA Report