



Cloich Forest Wind Farm

Volume 2b – LVIA Figures

June 2021

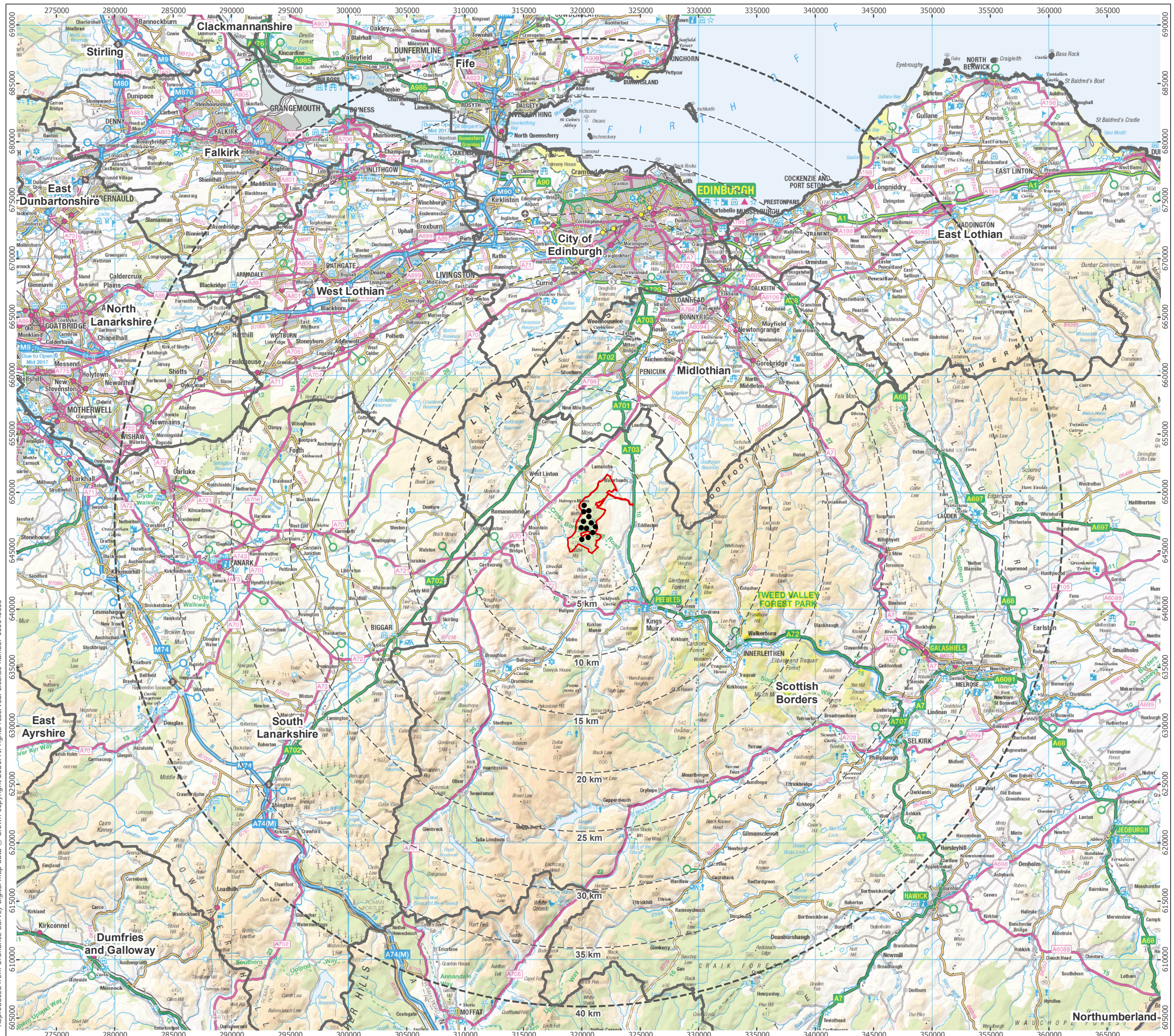
CLOICH FOREST WIND FARM

EIA Report – Volume 2b – LVIA Figures

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- Local Authority boundary
- Site boundary
- Turbine location
- 5 km intervals from outmost turbines
- 40 km interval from outmost turbine

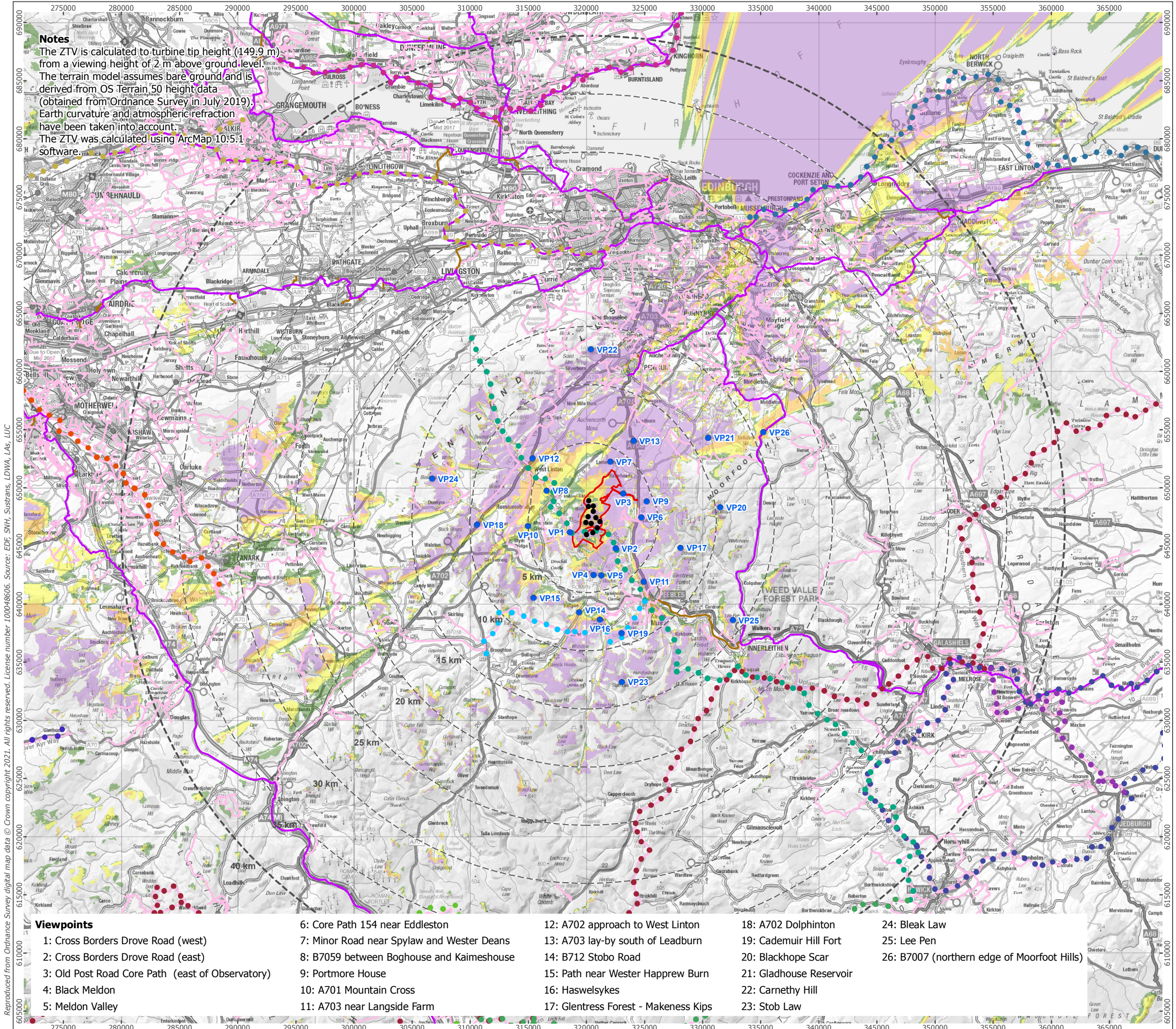
1:315,000 Scale @ A3
 0 6 12 km ▲ NORTH

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LVIA Study Area
Figure 5.1.1

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Notes
 The ZTV is calculated to turbine tip height (149.9 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 40 km interval from outermost turbine
- Viewpoint location
- National Cycle Network (NCN)
- NCN Link
- Annandale Way
- Borders Abbeys Way
- Clyde Walkway
- Cross Borders Drive Road
- Fife Coastal Path
- Forth Clyde Canal/Union Canal
- John Muir Way
- River Ayr Way
- Romans and Reivers Route
- Southern Upland Way
- St Cuthbert's Way
- John Buchan Way
- Core path (indicative)

Theoretical turbine tip visibility

- 1-3 Turbines are visible
- 4-6 Turbines are visible
- 7-9 Turbines are visible
- 10-12 Turbines are visible

1:315,000 Scale @ A3
 0 6 12 km ▲ NORTH

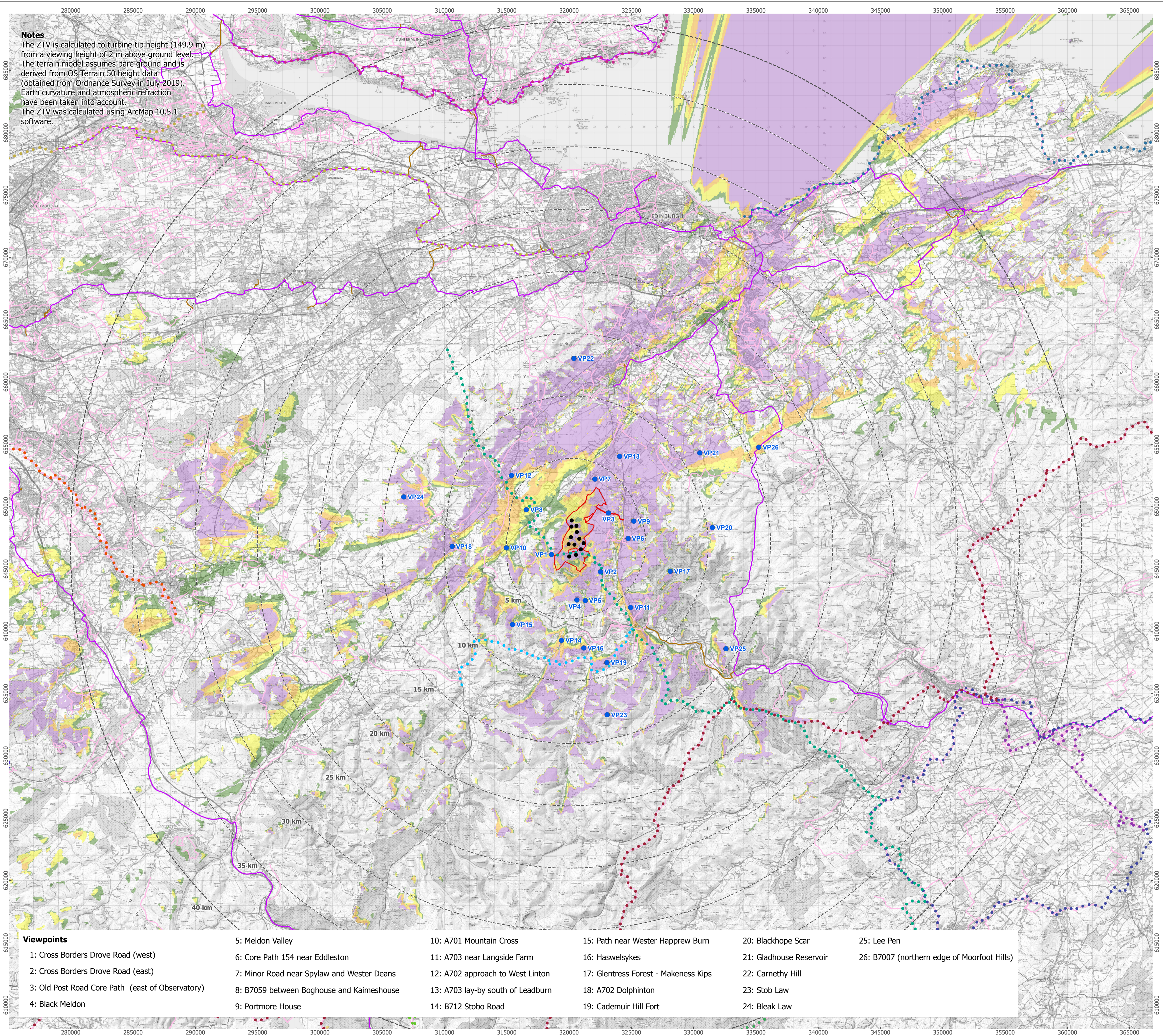
- Viewpoints**
- | | | | | |
|--|--|--------------------------------------|-------------------------|---|
| 1: Cross Borders Drive Road (west) | 6: Core Path 154 near Eddleston | 12: A702 approach to West Linton | 18: A702 Dolphinton | 24: Bleak Law |
| 2: Cross Borders Drive Road (east) | 7: Minor Road near Spylaw and Wester Deans | 13: A703 lay-by south of Leadburn | 19: Cademuir Hill Fort | 25: Lee Pen |
| 3: Old Post Road Core Path (east of Observatory) | 8: B7059 between Boghouse and Kaimeshouse | 14: B712 Stobo Road | 20: Blackhope Scar | 26: B7007 (northern edge of Moorfoot Hills) |
| 4: Black Meldon | 9: Portmore House | 15: Path near Wester Haprew Burn | 21: Gladhouse Reservoir | |
| 5: Meldon Valley | 10: A701 Mountain Cross | 16: Haswelyskes | 22: Carnethy Hill | |
| | 11: A703 near Langside Farm | 17: Glentress Forest - Makeness Kips | 23: Stob Law | |

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Blade Tip Height (149.9 m) ZTV
 Figure 5.1.2a

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Viewpoints					
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2: Cross Borders Drove Road (east)	6: Core Path 154 near Eddleston	11: A703 near Langside Farm	16: Haswelsykes	21: Gladhouse Reservoir	26: B7007 (northern edge of Moorfoot Hills)
3: Old Post Road Core Path (east of Observatory)	7: Minor Road near Spylaw and Wester Deans	12: A702 approach to West Linton	17: Glentress Forest - Makeness Kips	22: Carnethy Hill	
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- Romans and Reivers Route
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- St Cuthbert's Way
- John Buchan Way
- Core path (indicative)

Theoretical turbine tip visibility

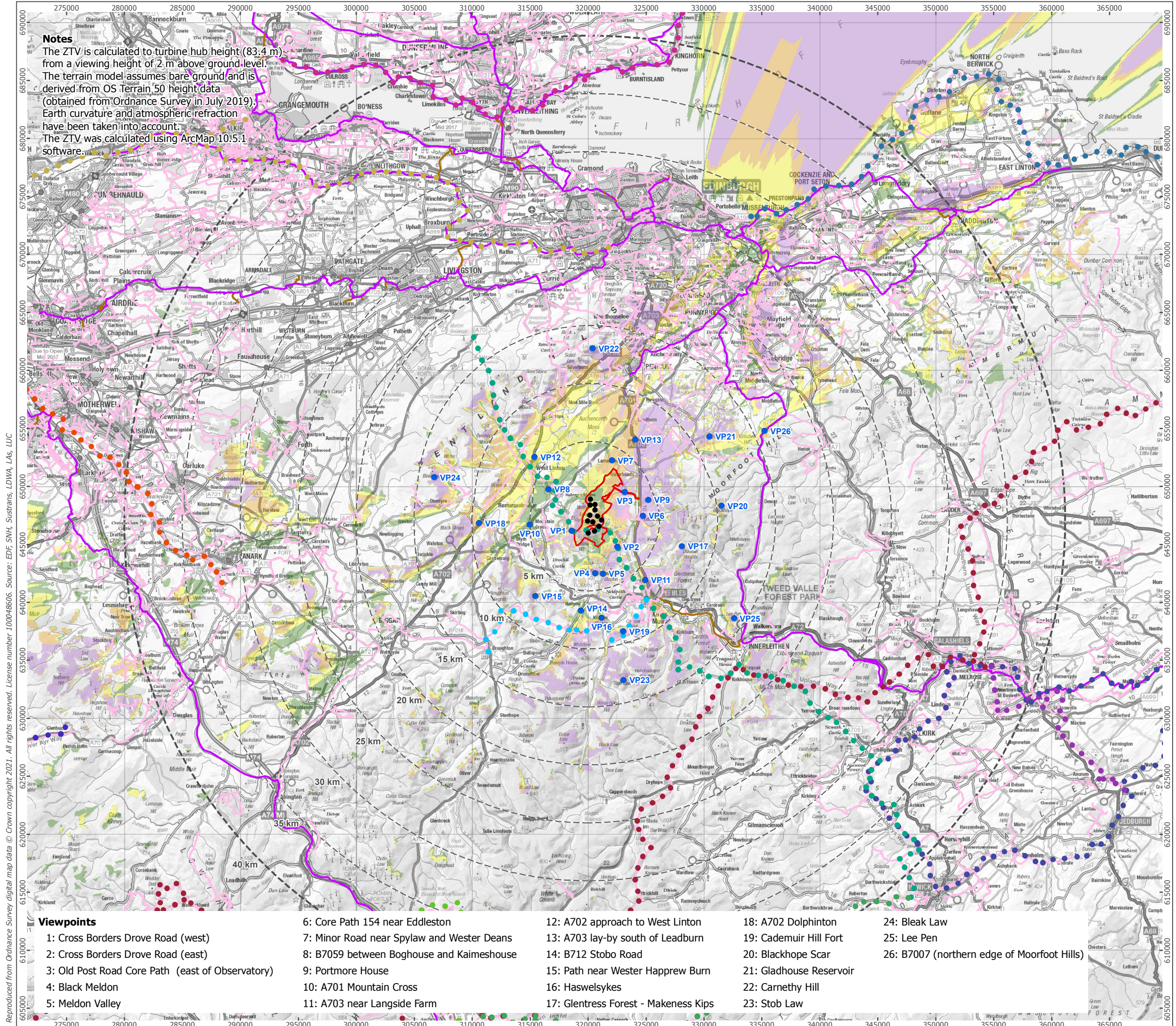
- 1-3 Turbines are visible
- 4-6 Turbines are visible
- 7-9 Turbines are visible
- 10-12 Turbines are visible

1:150,000 Scale @ A3

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Blade Tip Height (149.9 m) ZTV
 Figure 5.1.2b

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Notes
 The ZTV is calculated to turbine hub height (83.4 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



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1:315,000 Scale @ A3
 0 6 12 km ▲ NORTH

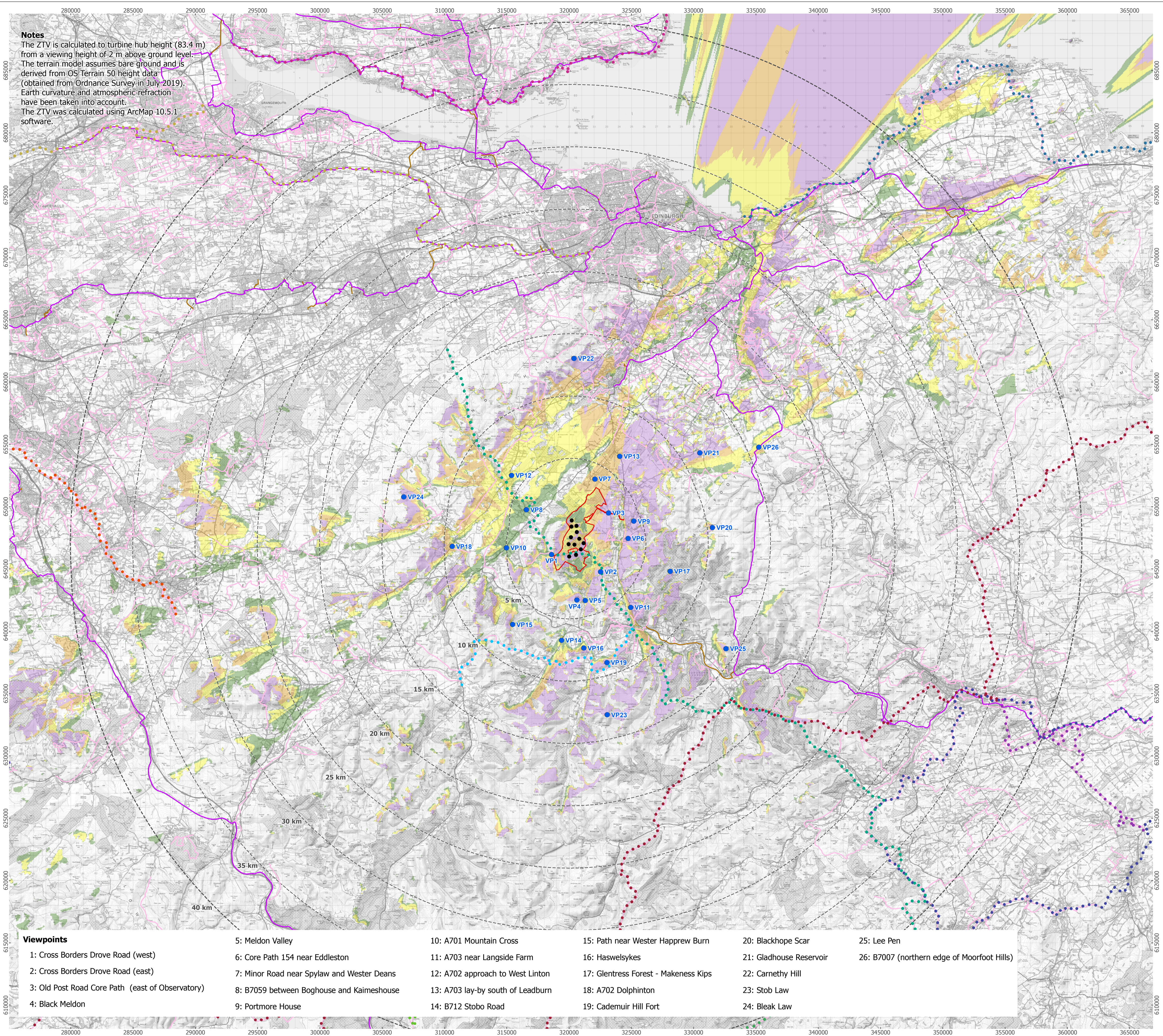
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| | | | 24: Bleak Law |
| | | | 25: Lee Pen |
| | | | 26: B7007 (northern edge of Moorfoot Hills) |

Hub Height (83.4 m) ZTV
 Figure 5.1.3a

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1:150,000 Scale @ A3

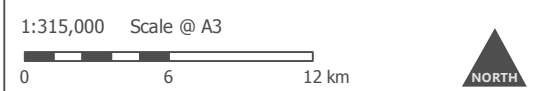
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Hub Height (83.4 m) ZTV
Figure 5.1.3b

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- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 40 km interval from outermost turbine
- Landscape Character Areas*

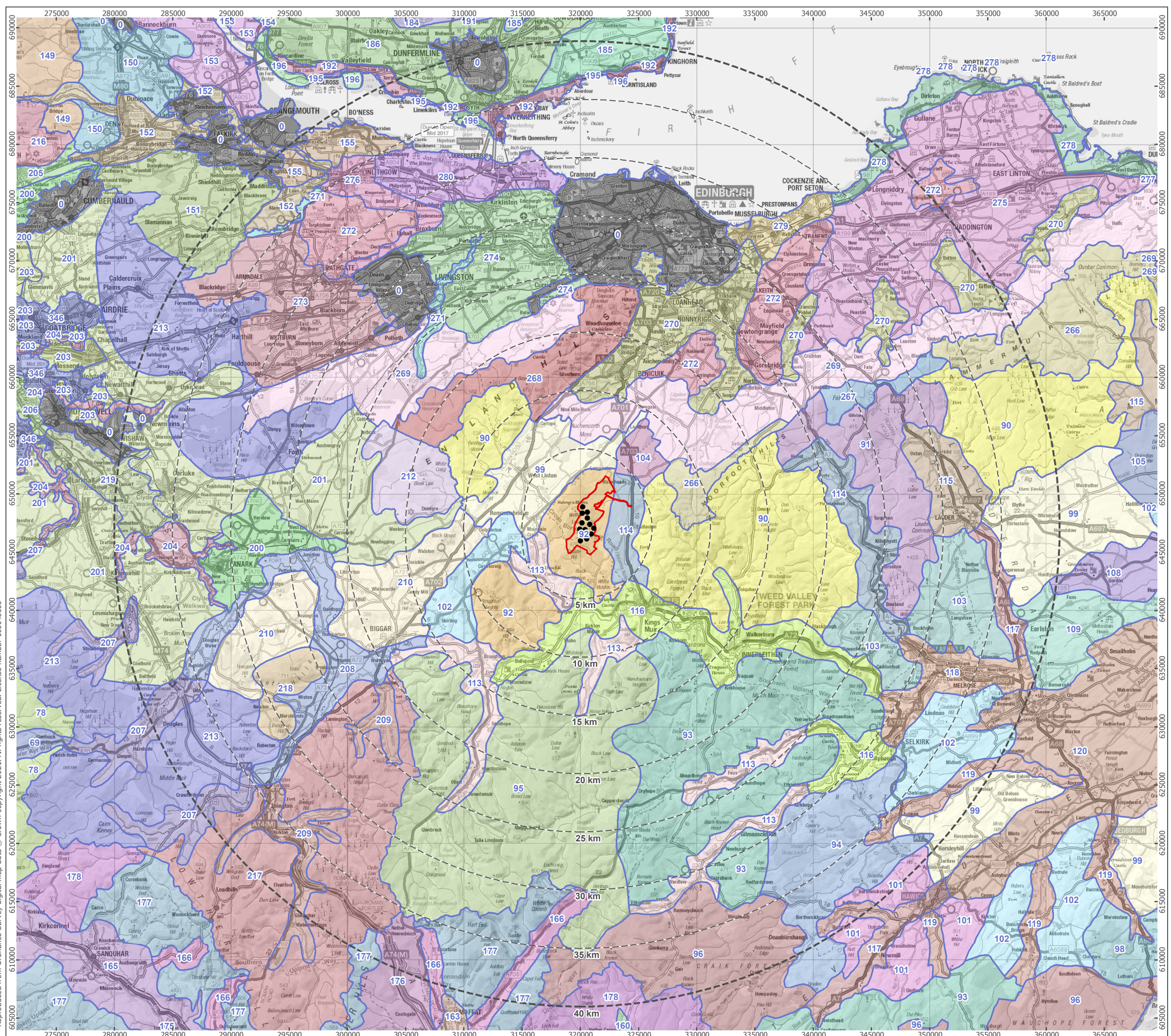
Note:
 *Source: SNH 2019.
 For a full list of Landscape Character Areas see Figure 5.1.4b




























































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Landscape Character Areas
 Figure 5.1.4a

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-  Urban
-  69: Upland River Valleys - Ayrshire
-  78: Plateau Moorland - Ayrshire
-  90: Dissected Plateau Moorland
-  91: Plateau Grassland - Borders
-  92: Plateau Outliers
-  93: Southern Uplands with Scattered Forest - Borders
-  94: Rolling Moorland
-  95: Southern Uplands - Borders
-  96: Southern Uplands with Forest - Borders
-  98: Rolling Foothills
-  99: Rolling Farmland - Borders
-  101: Rocky Upland Fringe
-  102: Upland Fringe with Prominent Hills
-  103: Undulating Upland Fringe
-  104: Upland Fringe Rough Grassland
-  105: Upland Fringe Moorland with Hills
-  108: Lowland Margin
-  109: Lowland Margin with Hills
-  113: Upland Valley with Pastoral Floor
-  114: Pastoral Upland Valley
-  115: Upland Valley with Mixed Farmland
-  116: Upland Valley with Woodland
-  117: Pastoral Upland Fringe Valley
-  118: Settled Upland Fringe Valley
-  119: Wooded Upland Fringe Valley
-  120: Lowland Valley with Farmland
-  149: Lowland Hills - Central
-  150: Lowland Hill Fringes - Central
-  151: Lowland Plateaux - Central
-  152: Lowland River Valleys - Central
-  153: Carselands
-  154: Lowland Valley Fringes
-  155: Coastal Farmland - Central
-  160: Narrow Wooded River Valley - Dumfries & Galloway
-  163: Middle Dale - Dumfries & Galloway
-  165: Upper Dale - Dumfries & Galloway
-  166: Upland Glens - Dumfries & Galloway
-  175: Foothills - Dumfries & Galloway
-  176: Foothills with Forest - Dumfries & Galloway
-  177: Southern Uplands - Dumfries & Galloway
-  178: Southern Uplands with Forest - Dumfries & Galloway
-  184: Foothills - Fife
-  185: Pronounced Hills and Crags
-  186: Lowland Hills and Valleys
-  191: Lowland Loch Basins - Fife
-  192: Coastal Hills - Fife
-  195: Coastal Braes
-  196: Coastal Flats - Fife
-  200: Rolling Farmland - Glasgow & Clyde Valley
-  201: Plateau Farmland - Glasgow & Clyde Valley
-  203: Urban Fringe Farmland
-  204: Incised River Valleys
-  205: Broad Valley Lowland - Glasgow & Clyde Valley
-  206: Broad Urban Valley
-  207: Upland River Valley - Glasgow & Clyde Valley
-  208: Broad Valley Upland
-  209: Upland Glen - Glasgow & Clyde Valley
-  210: Undulating Farmland and Hills
-  212: Moorland Hills - Glasgow & Clyde Valley
-  213: Plateau Moorlands - Glasgow & Clyde Valley
-  216: Rugged Moorland Hills
-  217: Southern Uplands - Glasgow & Clyde Valley
-  218: Rounded Landmark Hills
-  219: Broad River Valley
-  266: Plateau Moorland - Lothians
-  267: Plateau Grassland - Lothians
-  268: Upland Hills - Lothians
-  269: Upland Fringes - Lothians
-  270: Lowland River Valleys - Lothians
-  271: Lowland River Corridors - Lothians
-  272: Lowland Hills and Ridges - Lothians
-  273: Lowland Plateaux - Lothians
-  274: Lowland Plain
-  275: Lowland Farmed Plain - Lothians
-  276: Lowland Hill Fringes - Lothians
-  277: Coastal Margins - Lothians
-  278: Coastal Terrace - Lothians
-  279: Settled Coastal Farmland
-  280: Coastal Farmland - Lothians
-  346: Open Farmed Slopes

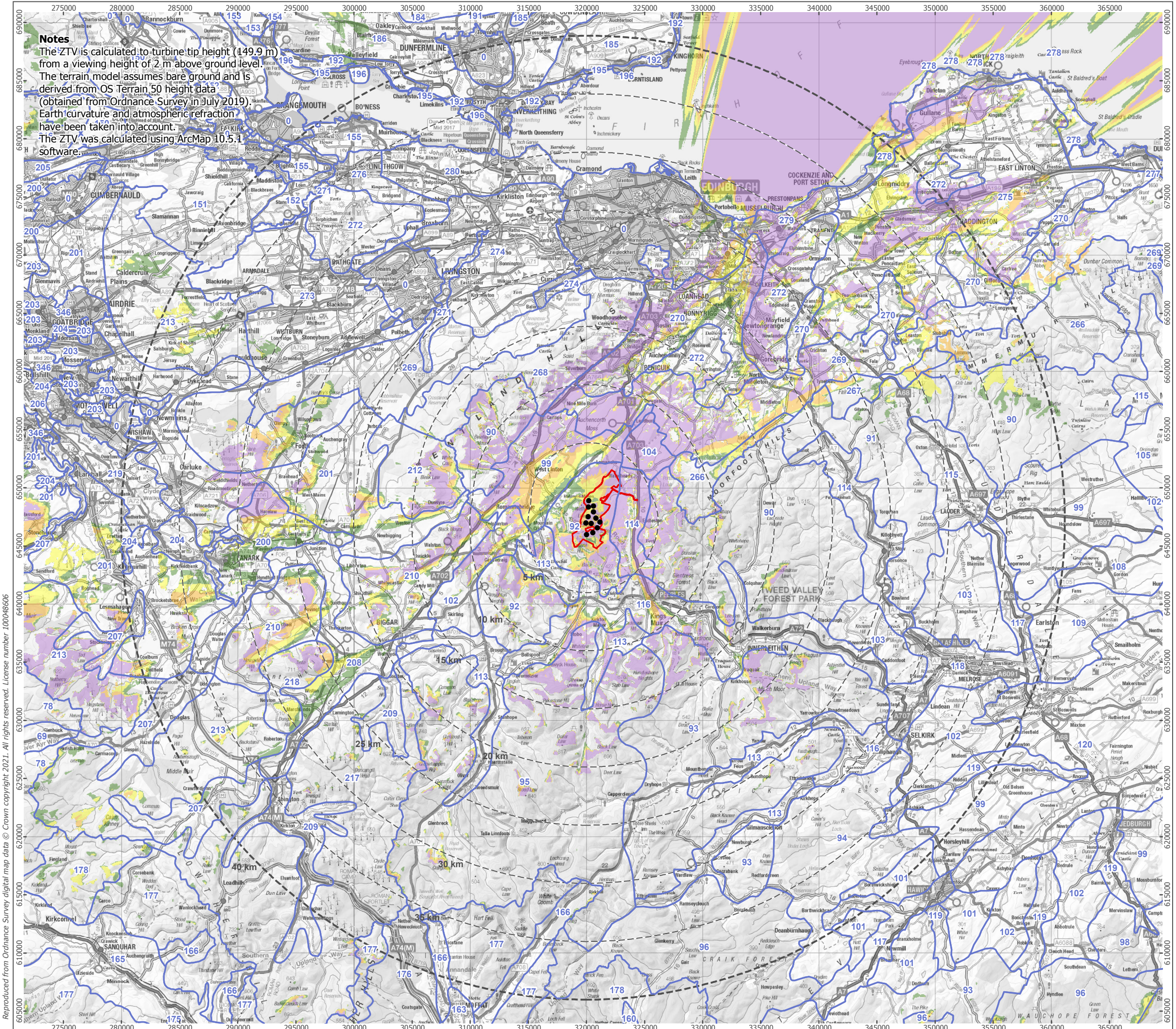
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Landscape Character Areas List
Figure 5.1.4b

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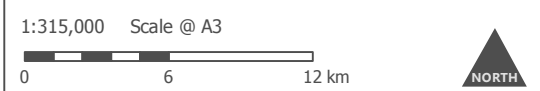


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 For a full list of Landscape Character Areas see Figure 5.1.4b

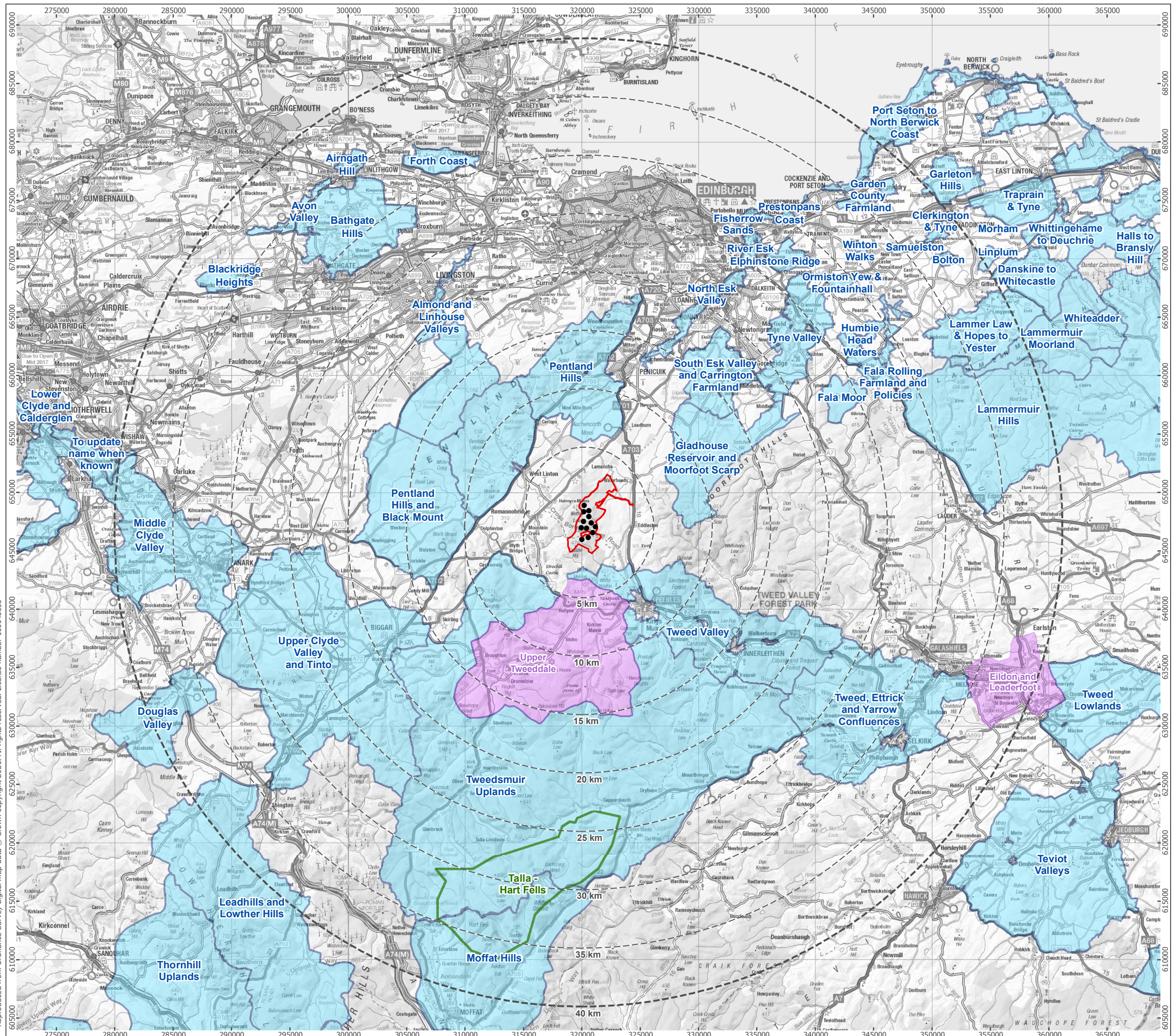


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LCA and Blade Tip Height ZTV
 Figure 5.1.5

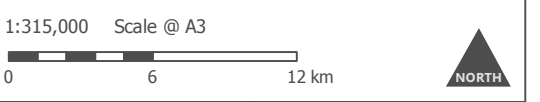
Cloich Forest Wind Farm
EIA Report

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- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 40 km interval from outermost turbine
- National Scenic Area
- Wild Land
- Local Landscape Designation

Source: SNH 2019, Local Authorities

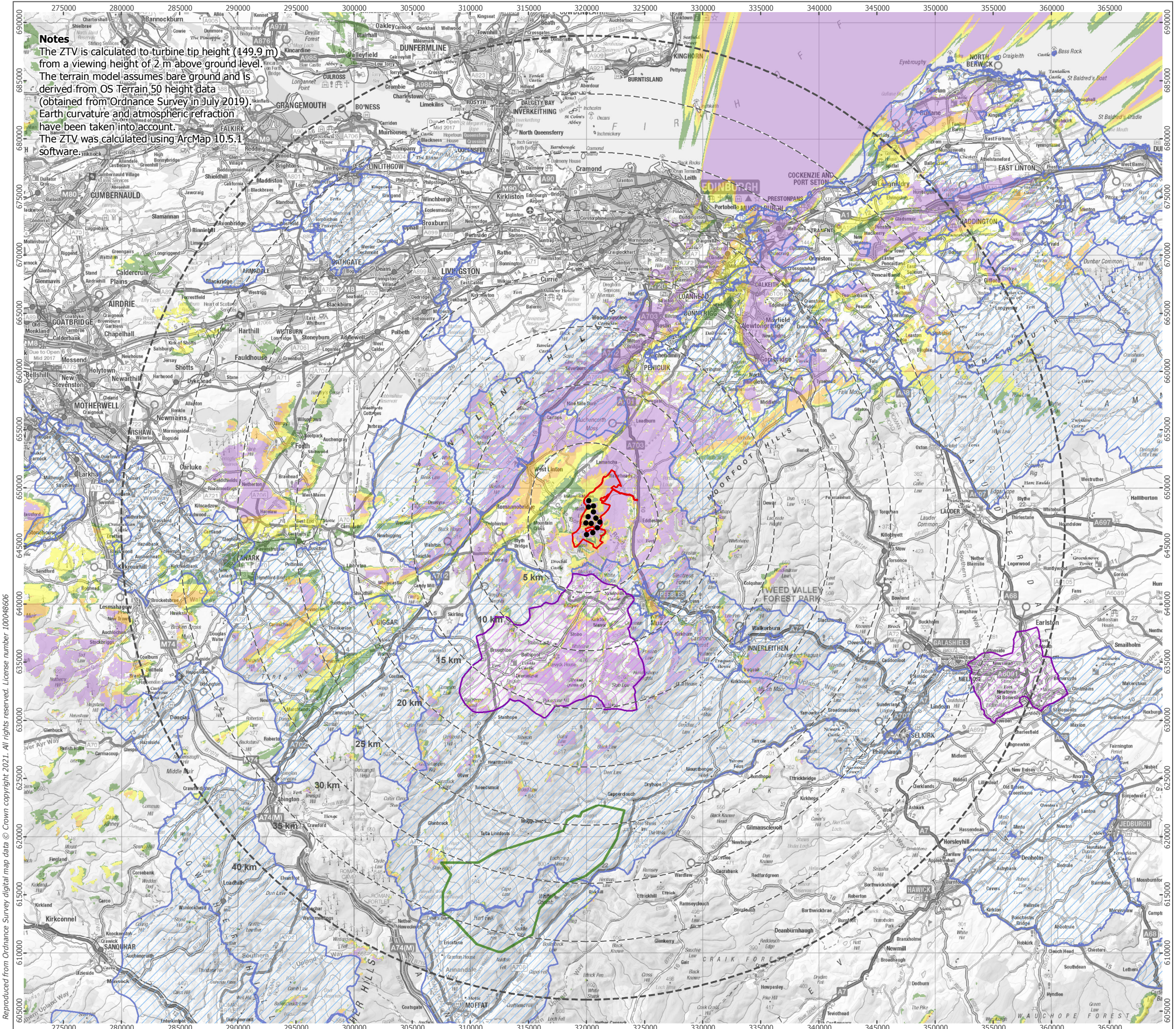


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Designated Landscapes and Wild Land Areas
Figure 5.1.6

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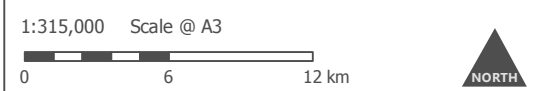


Notes
 The ZTV is calculated to turbine tip height (149.9 m) from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



- Site boundary
 - Turbine location
 - 5 km intervals from outermost turbines
 - 40 km interval from outermost turbine
 - National Scenic Area
 - Wild Land
 - Local Landscape Designation
- Theoretical turbine tip visibility**
- 1-3 Turbines are visible
 - 4-6 Turbines are visible
 - 7-9 Turbines are visible
 - 10-12 Turbines are visible

Source: SNH 2019, Local Authorities, LUC

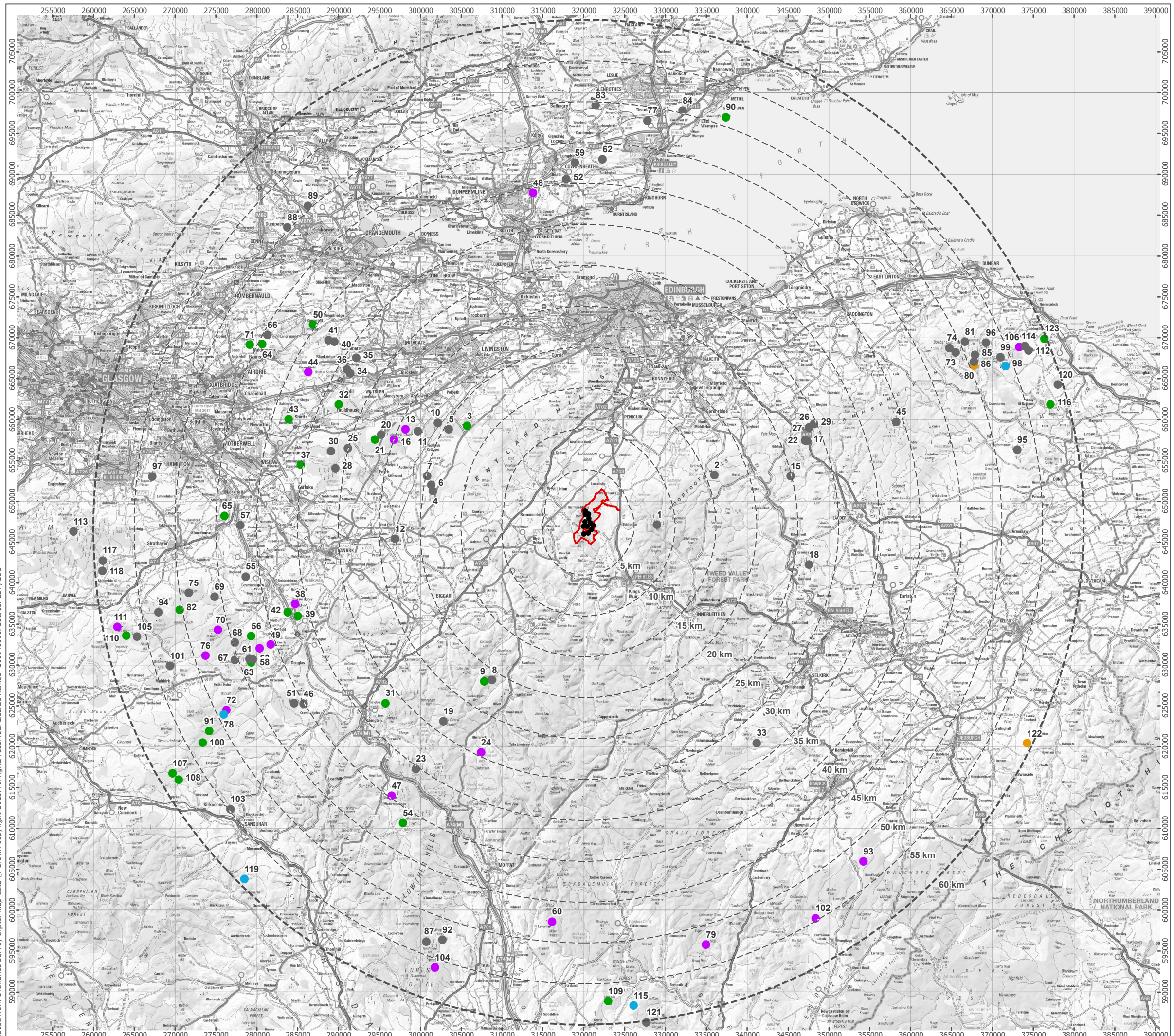


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Designated Landscapes, Wild Land Areas and Blade Tip ZTV
Figure 5.1.7

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- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 60km from outermost turbines

Cumulative wind farms (by status)

- Operational
- Under construction
- Consented
- Appeal/Public inquiry
- Application submitted

Note:
 Cumulative wind farms based on information available to LUC on 09/02/2021.
 Single turbines beyond 5km from the proposal, turbines under 50m and wind farms at scoping stage are not shown.
 For the full list of wind farm names see Figure 5.1.8b

1:450,000 Scale @ A3
 0 8.5 17 km ▲ NORTH

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Other Wind Farm Developments within 60 km
 Figure 5.1.8a

Cloich Forest Wind Farm EIA Report

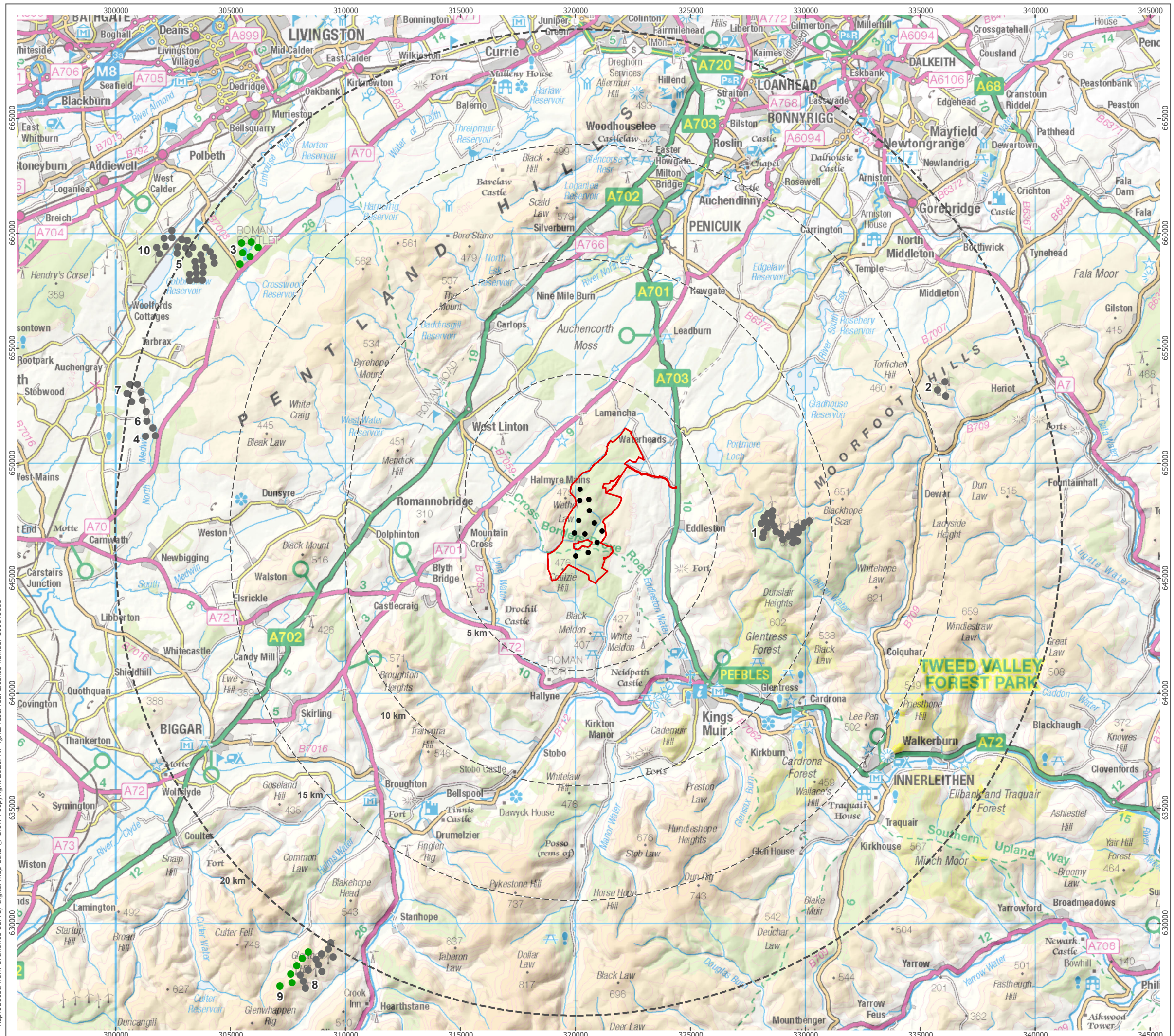
- | | | |
|--|--|--|
| 1: Bowbeat: Operational | 43: Hartwood: Consented | 84: Earlseat Farm: Operational |
| 2: Carcant: Operational | 44: Forrestfield: Application Submitted | 85: Crystal Rig - Phase 1: Operational |
| 3: Camilty: Consented | 45: Fallago Rig: Operational | 86: Crystal Rig - Phase 1a: Operational |
| 4: Muirhall South: Operational | 46: Middle Muir: Operational | 87: Harestanes: Operational |
| 5: Harburnhead: Operational | 47: Crookedstane: Application Submitted | 88: Todhill Farm: Operational |
| 6: Muirhall Extension: Operational | 48: Junction 2a Dunfermline: Application Submitted | 89: Rosehill Farm: Operational |
| 7: Muirhall: Operational | 49: Douglas West: Application Submitted | 90: Forthwind Demonstration Array: Consented |
| 8: Glenkerie: Operational | 50: Easter Drumclair Wood: Consented | 91: Penbreck (SL): Consented |
| 9: Glenkerie Extension: Consented | 51: Andershaw: Operational | 92: Minnygap: Operational |
| 10: Pearie Law: Operational | 52: Mossmorran: Operational | 93: Pine Burns: Application Submitted |
| 11: Pates Hill: Operational | 53: Douglas West Extension: Application Submitted | 94: Dungavel: Operational |
| 12: Burnhouse - Carnwath: Operational | 54: Lion Hill: Consented | 95: Black Hill: Operational |
| 13: Longhill Burn: Application Submitted | 55: Ladehead Farm: Operational | 96: Aikengall: Operational |
| 15: Toddleburn: Operational | 56: Dalquhandy: Consented | 97: Blantyre Muir: Operational |
| 16: Heathland: Application Submitted | 57: Lochhead: Operational | 98: Aikengall IIa: Under Construction |
| 17: Dun Law - Phase 2: Operational | 58: Hagshaw Hill Extension: Operational | 99: Aikengall II - Wester Dod: Operational |
| 18: Longpark: Operational | 59: Little Raith: Operational | 100: Penbreck (EA): Consented |
| 19: Clyde Extension: Operational | 60: Scoop Hill Community: Application Submitted | 101: Linburn Farm: Operational |
| 20: Tormywheel: Operational | 61: Hagshaw Hill: Operational | 102: Windy Edge: Application Submitted |
| 21: Tormywheel Extension: Consented | 62: Gevens Wind Cluster: Operational | 103: Sunnyside Wind Cluster: Operational |
| 22: Dun Law - Phase 1: Operational | 63: Hagshaw Hill Repowering: Consented | 104: Harestanes South: Application Submitted |
| 23: Clyde: Operational | 64: Greengairs East: Consented | 105: Bankend Rig: Operational |
| 24: Whitelaw Brae: Application Submitted | 65: Kittymuir: Consented | 106: Ferneylea Farm 2: Application Submitted |
| 25: Black Law Extension Phase 1: Operational | 66: Greendykeside: Operational | 107: Lethans: Consented |
| 26: Pogbie Extension: Operational | 67: Galawhistle (Section 36): Operational | 108: Glenmuckloch: Consented |
| 27: Pogbie: Operational | 68: Nutberry: Operational | 109: Little Hartfell: Consented |
| 28: Black Law: Operational | 69: Auchrobert: Operational | 110: Bankend Rig Extension: Consented |
| 29: Keith Hill: Operational | 70: Cumberhead West: Application Submitted | 111: Mill Rig: Application Submitted |
| 30: Black Law Extension Phase 2: Operational | 71: Greengairs: Consented | 112: Hoprigshiels: Operational |
| 31: Priestgill: Consented | 72: Kennoxhead Extension: Application Submitted | 113: Whitelee: Operational |
| 32: West Benhar: Consented | 73: Crystal Rig - Phase 2: Operational | 114: Ferneylea Farm: Operational |
| 33: Langhope Rig: Operational | 74: Crystal Rig - Phase 2a: Operational | 115: Crossdykes: Under Construction |
| 34: Torrance Farm Extension: Operational | 75: Kype Muir: Operational | 116: Weirburn House: Consented |
| 35: Standhill Farm: Operational | 76: Hare Craig: Application Submitted | 117: West Browncastle: Operational |
| 36: Torrance Farm: Operational | 77: Middle Balbeggie Farm: Operational | 118: Calder Water: Operational |
| 37: Watsonhead Farm: Consented | 78: Kennoxhead: Under Construction | 119: Twentysilling Hill: Under Construction |
| 38: Broken Cross: Application Submitted | 79: Faw Side: Application Submitted | 120: Quixwood: Operational |
| 39: Broken Cross surface mine: Consented | 80: Crystal Rig - Phase 4: Appeal/Public Inquiry | 121: Ewe Hill (Section 36): Operational |
| 40: Drumduff: Operational | 81: Crystal Rig - Phase 3: Operational | 122: Whitton: Appeal/Public Inquiry |
| 41: Burnhead: Operational | 82: Kype Muir Extension: Consented | 123: Kinegar Quarry: Consented |
| 42: Birkhill: Consented | 83: Westfield: Operational | |



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List of Other Wind Farm Developments
Figure 5.1.8b

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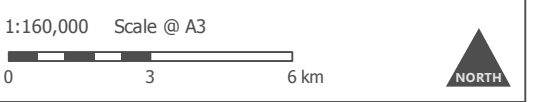


- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 20 km from outermost turbines

Cumulative wind farms (by status)

- Operational
 - Consented
- 1: Bowbeat
 - 2: Carcant
 - 3: Camilty
 - 4: Muirhall South
 - 5: Harburnhead
 - 6: Muirhall Extension
 - 7: Muirhall
 - 8: Glenkerie
 - 9: Glenkerie Extension
 - 10: Pearie Law

Note:
Cumulative wind farms based on information available to LUC on 09/02/2021.

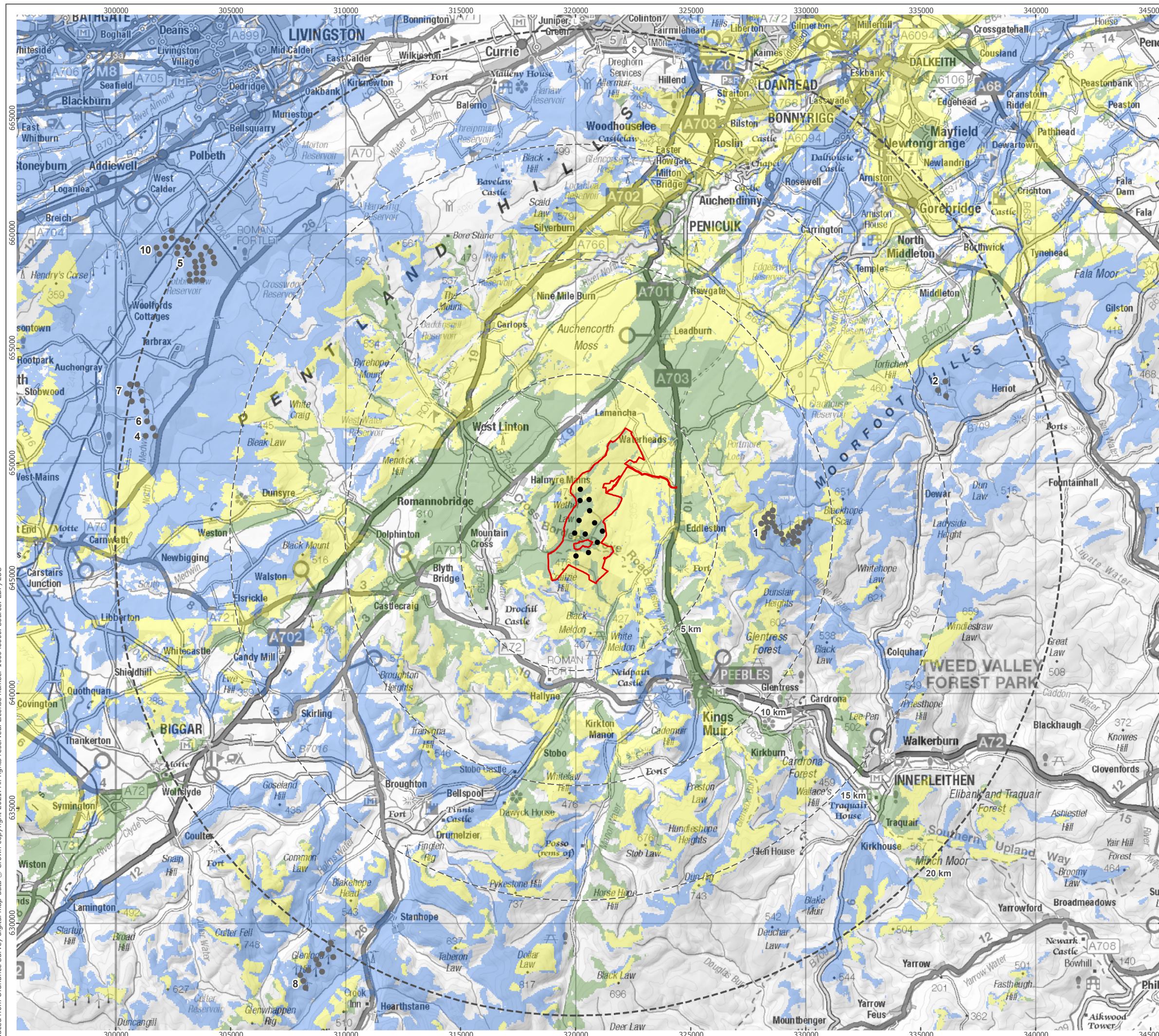


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**Wind Farm Developments
Included in Cumulative Assessment
Figure 5.1.9**

**Cloich Forest Wind Farm
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- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 20 km intervals from outermost turbines
- Operational wind farm
 - 1: Bowbeat
 - 2: Carcant
 - 4: Muirhall South
 - 5: Harburnhead
 - 6: Muirhall Extension
 - 7: Muirhall
 - 8: Glenkerie
 - 10: Pearie Law

Theoretical visibility of wind farms

- Only other wind farms are visible
- Only Cloich wind farm is visible
- Both Cloich and other wind farms are visible

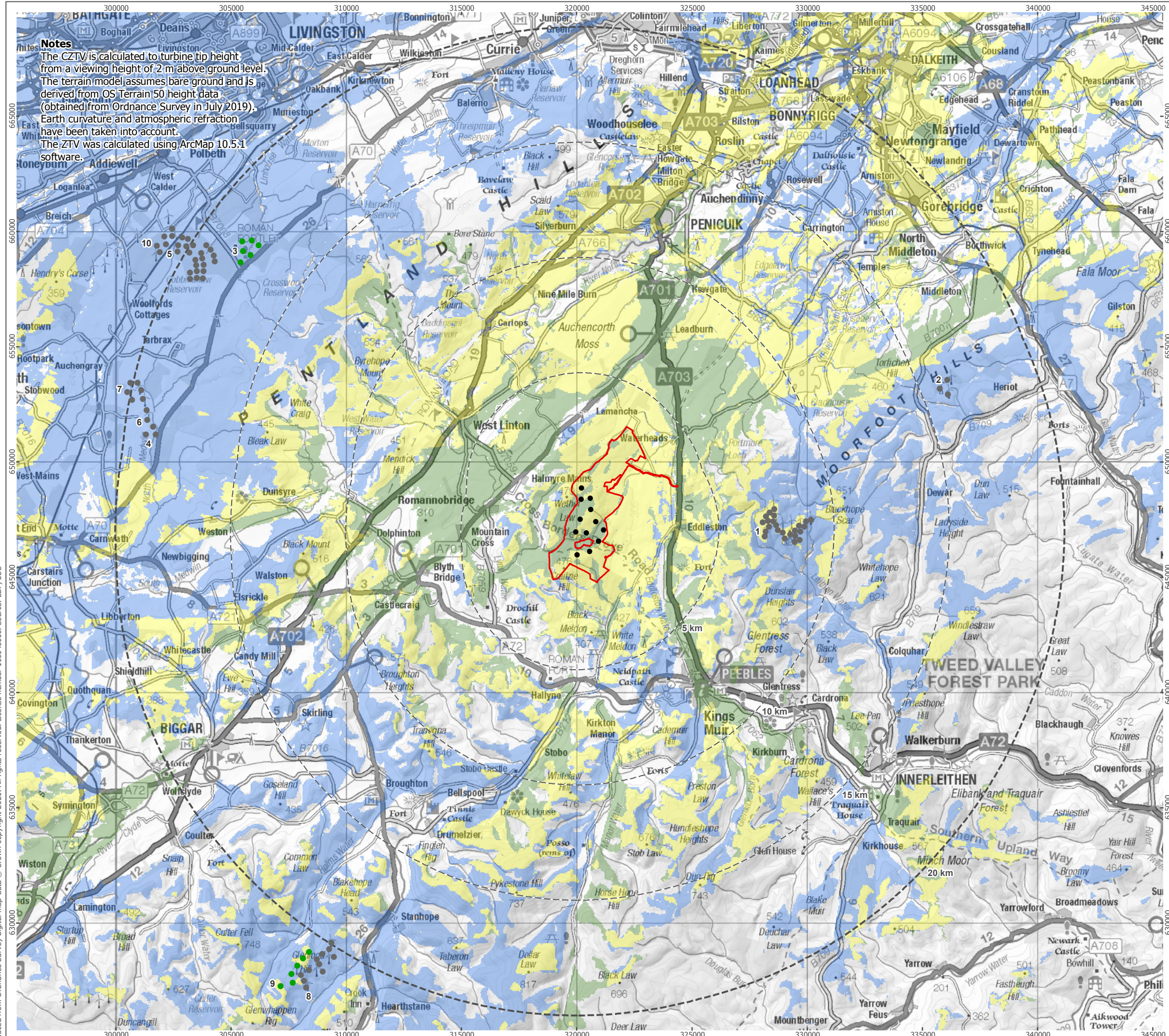
Notes
 The CZTV is calculated to turbine tip height from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.



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CZTV - Operational Wind Farms and Cloich (20 km)
 Figure 5.1.10

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 S:\10800\10801 Cloich WF LVIA\GIS\MXD\Report\LVIA_Final_v1\FIGS-1-10_r2_CZTV_OperUndConstr_A3L.mxd

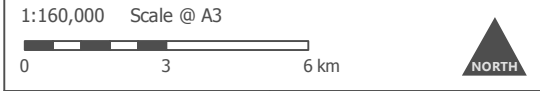


Notes
 The CZTV is calculated to turbine tip height from a viewing height of 2 m above ground level. The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in July 2019). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcMap 10.5.1 software.

- Site boundary
- Turbine location
- 5 km intervals from outermost turbines
- 20 km intervals from outermost turbines

- Operational wind farm
- Consented wind farm
- 1: Bowbeat
- 2: Carcant
- 3: Camilty
- 4: Muirhall South
- 5: Harburnhead
- 6: Muirhall Extension
- 7: Muirhall
- 8: Glenkerie
- 9: Glenkerie Extension
- 10: Pearie Law

- Theoretical visibility of wind farms**
- Only other wind farms are visible
 - Only Cloich wind farm is visible
 - Both Cloich and other wind farms are visible



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CZTV - Operational and Consented Wind Farms and Cloich (20 km)
 Figure 5.1.11

Cloich Forest Wind Farm EIA Report