Bowbeat Wind Farm Repowering
Scoping Report
for Bowbeat Repowering Limited

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Figure 5.1: LVIA Study Area

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 45km LVIA Study Area from outermost turbines
- Local authority boundary

Map scale 1:350,000 @ A3

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Scoping Report
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Figure 5.2a: Blade Tip Height (230m) Zone of Theoretical Visibility (ZTV) and Viewpoint Locations

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 45km LVIA Study Area from outermost turbines

Theoretical blade tip visibility (turbine blade tip height 230m)

- 1 - 2 turbines visible
- 3 - 4 turbines visible
- 5 - 6 turbines visible
- 7 - 9 turbines visible
- LVIA day-time viewpoint
- LVIA day-time and night-time viewpoint

VP1: Blackhope Scar
VP2: Hirendean Castle
VP3: Gladhouse Reservoir
VP4: White Meldon
VP5: Manor Sware Peebles
VP6: Lee Pen (Scenic Viewpoint)
VP7: Windlestraw Law
VP8: Cademuir Hill Fort
VP9: B7026, north of Howgate
VP10: A702 north-east of Carlops
VP11: Stob Law
VP12: Southern Upland Way (SUW) at Minch Moor
VP13: Lady Brae, Gorebridge
VP14: Carnethy Hill
VP15: Three Brethren

LVIA day-time and night-time viewpoints are displayed in blue

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine blade tip height 230m). Visibility is shown to a distance of 45km from the outermost turbines in all directions. The ZTV is calculated to turbine blade tip height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

Map scale 1:350,000 @ A3

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Scoping Report
for Bowbeat Repowering Limited

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Figure 5.2b: Blade Tip Height (230m) Zone of Theoretical Visibility (ZTV), Viewpoint Locations and Visual Receptors to 20km

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 20km LVIA Study Area from outermost turbines
- National Cycle Network (NCN)
- Core path

Long distance walking route

- Borders Abbeys Way
- Central Scottish Way
- Cross Borders Drove Road
- John Buchan Way
- Scottish National Trail
- Sir Walter Scott Way
- Southern Upland Way

Theoretical blade tip visibility (turbine blade tip height 230m)

- 1 - 2 turbines visible
- 3 - 4 turbines visible
- 5 - 6 turbines visible
- 7 - 9 turbines visible

- LVIA day-time viewpoint
- LVIA day-time and night-time viewpoint

VP1: Blackhope Scar
VP2: Hirendean Castle
VP3: Gladhouse Reservoir
VP4: White Meldon
VP5: Manor Sware Peebles
VP6: Lee Pen (Scenic Viewpoint)
VP7: Windlestraw Law
VP8: Cademuir Hill Fort
VP9: B7026, north of Howgate
VP10: A702 north-east of Carlops
VP11: Stob Law
VP12: Southern Upland Way (SUW) at Minch Moor
VP13: Lady Brae, Gorebridge
VP14: Carnethy Hill
VP15: Three Brethren

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine blade tip height 230m). Visibility is shown to a distance of 20km from the outermost turbines in all directions. The ZTV is calculated to turbine blade tip height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

LVIA day-time and night-time viewpoints are displayed in blue

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0 5 10 km

Map scale 1:160,000 @ A3

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LUC | 13117_Scoping : FIG05_02b_13117_r1_Tip_ZTV_VisRec_20km_A3L 04/08/2026
Source: Belltown RePower, LUC, WWCT, SG

Bowbeat Wind Farm Repowering
Scoping Report
for Bowbeat Repowering Limited

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Figure 5.3a: Hub Height (142.5m) Zone of Theoretical Visibility (ZTV) and Viewpoint Locations

- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 45km LVIA Study Area from outermost turbines

Theoretical hub visibility (turbine hub height 142.5m)

- 1 - 2 turbine hubs visible
- 3 - 4 turbine hubs visible
- 5 - 6 turbine hubs visible
- 7 - 9 turbine hubs visible
- LVIA day-time viewpoint
- LVIA day-time and night-time viewpoint

VP1: Blackhope Scar
VP2: Hirendean Castle
VP3: Gladhouse Reservoir
VP4: White Meldon
VP5: Manor Sware Peebles
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VP13: Lady Brae, Gorebridge
VP14: Carnethy Hill
VP15: Three Brethren

LVIA day-time and night-time viewpoints are displayed in blue

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine hub height 142.5m). Visibility is shown to a distance of 45km from the outermost turbines in all directions. The ZTV is calculated to turbine hub height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

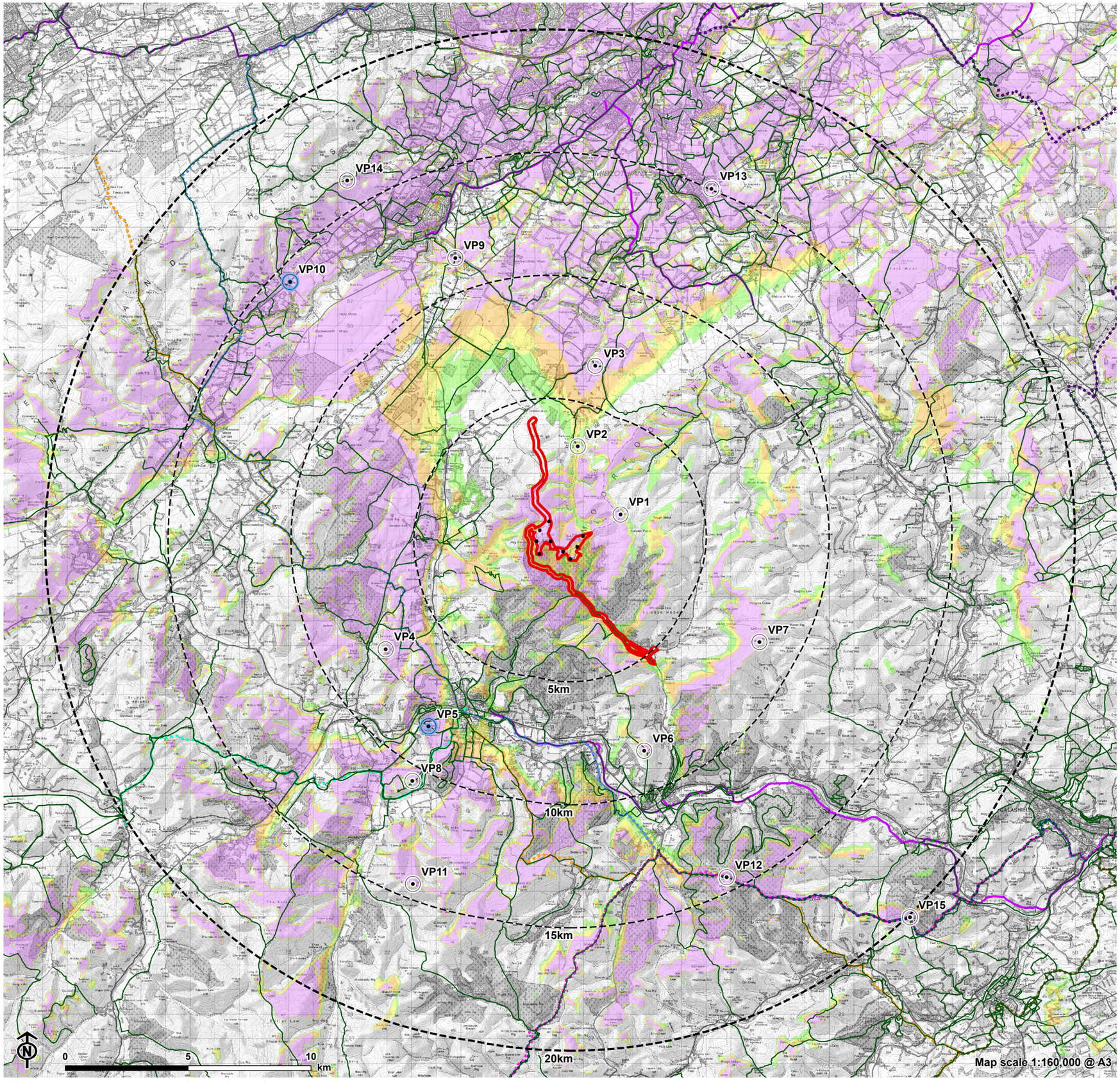
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Figure 5.3b: Hub Height (142.5m) Zone of Theoretical Visibility (ZTV), Viewpoint Locations and Visual Receptors to 20km



- Site boundary
- Turbine
- 5km intervals from outermost turbines
- 20km LVIA Study Area from outermost turbines
- National Cycle Network (NCN)
- Core path

Long distance walking route

- Borders Abbeys Way
- Central Scottish Way
- Cross Borders Drove Road
- John Buchan Way
- Scottish National Trail
- Sir Walter Scott Way
- Southern Upland Way

Theoretical hub visibility (turbine hub height 142.5m)

- 1 - 2 turbine hubs visible
- 3 - 4 turbine hubs visible
- 5 - 6 turbine hubs visible
- 7 - 9 turbine hubs visible
- LVIA day-time viewpoint
- LVIA day-time and night-time viewpoint

VP1: Blackhope Scar
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VP13: Lady Brae, Gorebridge
VP14: Carnethy Hill
VP15: Three Brethren

Note:
The ZTV illustrates the extent of visibility of the proposed Bowbeat Wind Farm Repowering (turbine hub height 142.5m). Visibility is shown to a distance of 20km from the outermost turbines in all directions. The ZTV is calculated to turbine hub height from a viewing height of 2m above ground level. The terrain model derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2026). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.6.1 software.

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Source: Belltown RePower, LUC, WWCT, SG