

Beauly to Blackhillock to New Deer to
Peterhead 400 kV Project
Environmental Impact Assessment Report
Volume 5 | Appendices

Appendix 12.1.102: Woodland Report Parcel 2534, Home Farm





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1 Introduction

- 1.1.1 This Appendix presents information relevant to the Beauly to Blackhillock to New Deer to Peterhead 400 kV Overhead Line (OHL) Project (the Proposed Development). It should be read in conjunction with the Environmental Impact Assessment (EIA) Report, specifically **Chapter 12: Forestry**, for full details of the Proposed Development.
- 1.1.2 As part of the EIA, it has been identified that construction of the Proposed OHL Alignment and the associated access tracks would cross several woodland areas within private or publicly owned landholdings.
- 1.1.3 This woodland report assesses the potential impacts of the Proposed Development on Woodland, Parcel 2534, Home Farm. It includes the requirements for woodland removal and management recommendations to mitigate the impact of the woodland removal. The report provides an overview of the characteristics of the affected woodland, including woodland composition, site conditions, soil conditions, exposure levels and existing felling approvals. The report also provides details of existing infrastructure, and potential constraints related to forestry operations. It aims to inform decision-making by identifying key environmental and logistical considerations associated with the Proposed Development. Additionally, it evaluates the feasibility of timber extraction and access whilst highlighting necessary mitigation measures to minimise disruption to the woodland ecosystem and surrounding landscape.
- 1.1.4 Field surveys of the woodland areas have been undertaken and have been used to determine the various woodland characteristics, to identify the woodland removal required and recommended. This document also sets out the area quantity hectares (ha) to be compensatory planted to ensure no net loss of woodland is achieved.

2 Woodland property

- 2.1.1 The landholding property boundaries are identified in **Figure 12.1.102a**: **Parcel 2534 Location Map**. The woodland consists of field boundaries within a wider agricultural setting. Situated 6.5 km north of Huntly in the Aberdeenshire council district (NJ 570821 435112).
- 2.1.2 The A97 is situated to the southeast of the woodlands, serving as a key access route.

3 Development Requirements

- 3.1.1 The Study Area for this assessment initially focussed on a 100 m width either side of the centreline of the Proposed OHL Alignment and ancillary infrastructure, where relevant, prior to the identification of an Operational Corridor (OC). The Applicant defines the OC as the area in which it has rights to remove woodland for the purposes of the safe construction, resilience and continued maintenance of OHLs, or protection of electrical plant as required by the Electricity Safety, Quality and Continuity Regulations (ESQCR)¹ 2002 and The Electricity Act² 1989. The OC is defined based on two different factors as follows:
 - The first factor in which the OC is determined is with reference to the distance at which a tree could fall and cause damage to the OHL, resulting in a supply outage. As a result, the OC width would be based on the safety distance required to allow for a mature tree falling towards the OHL at the mid-point on an OHL span between two towers, taking account of topography and tree height at maturity. Standard falling distance for a mature conifer tree is considered to be a minimum of 45 m. Where the OC passes through areas of broadleaved woodland, it is noted that the width of woodland removal is likely to be reduced, due to the general lower height and characteristics of the tree species present.
 - The second factor that is considered is the maximum distance that the OHL conductors can blow out from the tower under a 1 in 50-year return period wind condition, plus the required electrical clearance distance.

¹ UK Gov (2002). The Electricity Safety, Quality and Continuity Regulations 2002. Available at: The Electricity Safety, Quality and Continuity Regulations 2002

² UK Gov (1989). Electricity Act 1989. Available at: Electricity Act 1989



This is to ensure that the OHL conductors do not come into contact with, or come close enough to, any object that could result in an electrical clearance infringement. This conductor blowout distance varies between each tower dependent on span length and must therefore be considered on a span-by-span basis.

- 312 The typical OC required within areas of commercial conifer forestry for a 400 kV OHL is 90 m (i.e. 45 m either side of the centre line). Where the OC passes through areas of broadleaved woodland, it is proposed that the extent of woodland removal is likely to be reduced due to the lower height of the tree species present. The OC for the Proposed OHL Alignment through areas of broadleaved woodland has been reduced to 70 m (i.e. 35 m either side of the centre line of the OHL). This has been based on the likely height of the woodland at maturity. Where any woodland removal within the OC is proposed to be reduced from the 45 m either side of the line, a site-specific assessment must be carried out to confirm that the conductor blowout does not exceed the OC width. If the conductor blowout exceeds the OC, then the width of the OC must be increased to meet the requirements of the blowout assessment as a minimum. This will ensure compliance with ESQCR requirements and that the required safety clearances are maintained.
- 3.1.3 A resilient OC of 70 m in width is required throughout the broadleaved woodland within Woodland Parcel 2534 taking into account the requirements of the conductor blowout assessment. The OC is illustrated in Figure 12.1.102b: Parcel 2534 Proposed Felling Requirement.

3.2 Access Track Route Design

3.2.1 Temporary access tracks will be created across agricultural ground, these are out with the OC.

4 **Woodland Characteristics**

Woodland Composition and Site Conditions 4.1

- 4.1.1 The woodland was surveyed in January 2025. The Operational Corridor (OC) between towers BN2-18 and BN2-22 intersects sections of field boundaries of semi-mature broadleaved woodland. The dominant species present include Downy birch (DBI), Sycamore (SYC), and Beech (BCH).
- 4.1.2 The Detailed Aspect Method of Scoring (DAMS) score is showing a maximum of 123, indicating moderate wind exposure.
- 4.1.3 The National Soil Map of Scotland⁴ indicates, the predominant soil type within the affected areas consists of peaty gleys. However, given the site's historical use as agricultural land, there is a high likelihood that the soil structure has been altered over time.
- The Ecological Site Classification (ESC)⁵ identifies the site as having a cool, moderately exposed and moist climate. The soils have a wet moisture status and very poor nutrient status.
- The Proposed OHL Alignment consists of a section of OC between towers BN2-18 and BN2-22. The closest road suitable for access within the ownership are unclassified roads to the south, these lead to the A97 Considering the quality and quantity of the material operations can be carried out by a combination of hand felling / mulching.

³ Forest Research (2025). Available at: http://www.forestdss.org.uk/geoforestdss/ The Detailed Aspect Method of Scoring (DAMS) is a system used to assess wind exposure in forestry and land management. It provides a numerical score that quantifies the level of exposure a site experiences based on factors such as elevation, topography, and aspect (the direction a slope faces). The DAMS score helps foresters predict wind risk, which is crucial for understanding tree stability, growth potential, and the likelihood of windthrow (trees being uprooted or broken by wind) The scoring system ranges from 0 to 24, with higher scores indicating more exposure to wind.

Scottish Government (2024). National soil map of Scotland. Available at: https://soils.environment.gov.scot/maps/soil-maps/national-soil-map-of-scotland/

⁵ Forest Research Decision Support Tools. Ecological Site Classification. Available at: http://www.forestdss.org.uk/geoforestdss/



4.2 Photo Record - Operational Corridor Assessment

4.2.1 The following photographs provide a visual record of key locations along the OC. Each image illustrates existing vegetation types, land use, and notable landscape features relevant to the planning and management of the OC. Particular attention has been given to areas of mature woodland, natural regeneration, and locations where proposed works may intersect with ecologically or visually sensitive habitats. The photos are intended to support site assessments and inform mitigation strategies.

Photo 1: View from NJ 574971 434377, looking east along the overgrown remnants of a historical beech avenue that once lined the old estate road. Mature beech trees remain, though natural regeneration and encroaching vegetation have altered the original structure.



Photo 2: View from NJ 581521 430942, looking northwest along the field boundary beside the Burn of Cobairdy. The image highlights a line of mature beech trees, which form a prominent feature along the boundary.





5 Windblow Risk

- 5.1.1 It is acknowledged that the creation of the OC would result in wider potential indirect effects on the surrounding woodland areas. These areas would be subject to potential increased risk of damage (windblow). Each woodland report identifies further areas of felling to a windfirm edge, defined as 'Management Felling' (categorised as an indirect secondary impact), which is covered in more detail in the Forestry Chapter in Section 12.4. Management felling would be considered as part of any application for felling permission. This would provide restocking as agreed with Scottish Forestry which would result in balancing the loss of woodland. Any felling undertaken out with the OC would be solely under the control of the relevant landowner (and not the Applicant). It is the intention of the Applicant to encourage the landowners to follow this good practice in terms of redesign of their current Long-Term Forest Plans, which in-turn would aim to follow UK Forestry Standard (UKFS)⁶ for the implementation of the works required.
- 5.1.2 Considering the age and open grown nature of the species present there is little risk of windblow as a result of the felling of the trees in the OC.

6 Woodland Management Impact

- 6.1.1 As the woodland is not managed commercially, there will be no long-term negative impact on woodland management.
- 6.1.2 As part of construction works, dedicated crossing points and long-term access opportunities should be discussed with the landowner(s).
- 6.1.3 The Proposed OHL Alignment furthermore introduces an electrical hazard, but the constraint associated with the electrical hazard will be reduced by regular maintenance of the which will avoid the incidences of "Red Zone" trees (reference Forest Industry Safety accord, FISA 804 "Electricity at Work: Forestry").
- 6.1.4 The total loss of Native Broadleaved woodland resulting from the proposed alignment is 0 ha.

7 Mitigation Opportunities

7.1 Woodland Mitigation Measures

7.1.1 There is potential opportunity for compensatory planting out with the OC. This opportunity could be explored with the landowner.

7.2 Restructuring

7.2.1 Considering the size of the felling the proposals there is no impact on structure expected.

7.3 Restocking

7.3.1 It is anticipated that broadleaved regeneration is likely to occur within the OC, as a result of its proximity to existing seed sources.

8 Net Effect / Summary

8.1.1 **Tables 8.1 to 8.4** outline the operational requirements for woodland management within the OC between towers BN2-18 and BN2-22. They detail the areas designated for clear felling within the OC and forest design considerations.

⁶ Scottish Forestry (2024). UK Forestry Standard (UKFS). Available at: https://www.forestry.gov.scot/publications/sustainable-forestry/uk-forestry-standard-ukfs (accessed 01/05/2025)

Forest Industry Safety Accord (2020), FISA 804 Electricity at Work: Forestry. Available at: https://ukfisa.com/Safety/Safety-Guides/fisa-804



Table 8.1: Woodland removal for Infrastructure, within OC

| ltem | Woodland Type | Area (ha) | |
|------------------------------|----------------------------|-----------|--|
| Operational corridor felling | Broadleaved Woodland (70m) | 0.43 | |
| Total area | | | |

Table 8.2: Compensatory Planting

| ltem | Woodland Type | Area (ha) |
|----------------------------|----------------------|-----------|
| Compensatory Planting Area | Broadleaved Woodland | 0.43 |
| Total area | | 0.43 |

Table 8.3: Woodland Removal Impact of Infrastructure

| ltem | Area (ha) |
|----------------------------------|-----------|
| Total Loss of Woodland Area | 0.43 |
| Total Compensatory Planting Area | 0.43 |
| Total Net Loss of Woodland Area | |

Table 8.4: Woodland removal for Management Felling, outwith OC

| ltem | Woodland Type | Area (ha) |
|--|---------------|-----------|
| Management Felling | | 0.00 |
| Replanting / Restocking Opportunities | | 0.00 |
| Total Net Loss of Woodland Area | | 0.00 |

9 Compensatory Planting

- 9.1.1 Only areas directly impacted by the OC will be included in the compensatory planting total, in accordance with the Control of Woodland Removal Policy (CoWRP)⁸. This policy ensures that woodland loss due to development is mitigated by appropriate replanting or regeneration efforts, but it specifically applies to areas where tree removal is necessary for the Proposed Development. See **Appendix 12.3 Compensatory Planting Management Strategy**.
- 9.1.2 Any additional felling outside the OC, such as areas cleared for windthrow management or forest design improvements, falls under the responsibility of the landowner and is not included in the compensatory planting requirements. Instead, these areas may be replanted under a forest plan revision or felling license at the landowner's discretion. This approach aligns with national forestry guidelines, balancing infrastructure development with sustainable woodland management.
- 9.1.3 The total amount of net felling requiring compensation under the CoWRP is $0.43~\mathrm{ha}$.
- 9.1.4 In order to provide a greater balance limiting long-term impacts on forestry interests it is proposed that the majority of this woodland loss is compensated via offsite compensatory planting within the same local authority area. It is proposed that full details of the areas subject to this offsite compensatory planting is notified to Scottish Forestry prior to energising the OHL.

⁸ Forestry Commission Scotland (2009). Control of Woodland Removal Policy. Available at: https://www.forestry.gov.scot/publications/285-the-scottish-government-s-policy-on-control-of-woodland-removal/viewdocument/285



