

# **VOLUME 1: CHAPTER 14 - SUMMARY OF EFFECTS**

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# **Figures**

There are no figures associated with this Chapter

# **Appendices**

Appendix 14.1: Schedule of Mitigation Measures



#### 14. SUMMARY OF EFFECTS

#### 14.1 Introduction

- 14.1.1 The findings of the environmental impact assessment (EIA) for the Proposed Development are presented within the technical assessments contained within **Chapters 6 to 13** within **Volume 1** of this EIA Report. The significance of these effects has been assessed using criteria defined in the topic chapters. Unless stated otherwise in the technical assessments, the significance of effects has been categorised as **major**, **moderate**, **minor** or **negligible**, with effects assessed as being of '**major**' or '**moderate**' considered to be **significant** effects in the context of the Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 ('the EIA Regulations').
- 14.1.2 Mitigation measures have been identified to prevent, reduce or remedy any potentially significant adverse environmental effects identified where practicable, beyond that already taken into account as standard best practice (i.e. embedded mitigation) (e.g. the Construction Environment Management Plan (CEMP)). Such embedded mitigation measures will be implemented during detailed design, construction and / or operation of the Proposed Development. Each technical chapter of this EIA Report details the additional measures recommended to mitigate any identified significant effect, and a summary of all the recommended mitigation measures (embedded and additional) is provided in **Appendix 14.1: Schedule of Mitigation Measures**. Any remaining effects following implementation of available mitigation measures are known as 'residual effects'.
- 14.1.3 The purpose of this Chapter is to provide a summary of the likely predicted effects as a result of the Proposed Development identified within the technical chapters (**Chapters 6 to 13**) of this EIA Report, before and after the implementation of additional mitigation measures. This summary is provided in **Table 14.1**.



Table 14.1: Likely Effects

Topic / Receptor	Effect Significance (Pre- Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)		
Chapter 6: Landscape	Chapter 6: Landscape and Visual				
Landscape Character					
Local Landscape Zones (LLZ) LLZ 1 – LLZ 3	No significant effects during construction or operation.	N/A	No significant residual effects.		
	No significant cumulative effects during operation.	N/A	No significant cumulative residual effects during operation.		
Designated and Protect	cted Landscapes				
Braes of Means Special Landscape Area (SLA); and	No significant effects during construction or operation.	N/A	No significant residual effects.		
Clachnaben and Forest of Birse SLA.	No significant cumulative effects during operation	N/A	No significant cumulative residual effects during operation.		
Visual Receptors (Buil	ldings, Routes and Outdoor	Locations)			
Building-based Receptors (B1 - B4)	B1: Moderate Adverse and Significant effects during construction (no significant effects during operation)  B3: Moderate Adverse and Significant effects during construction (no significant effects during operation)  All other receptors (B2 and B4) no significant effects during construction or operation.	N/A	B1: Moderate Adverse and Significant residual effects during construction (no significant residual effects during operation).  B3: Moderate Adverse and Significant residual effects during construction (no significant residual effects during construction (no significant residual effects during operation).  All other receptors (B2 and B4) no significant residual		
	B1 – B4: No significant cumulative effects during operation.	N/A	No significant cumulative residual effects (B1 – B4) during operation.		

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Route Receptors (R1 – R5)	R1: Moderate Adverse and Significant effects during construction (no significant effects during operation).  All other receptors (R2-R5) no significant effects during construction or	N/A	R1: Moderate Adverse and Significant residual effects during construction (no significant residual effects during operation).  All other receptors (R2 – R5) no
	operation.		significant residual effects.
	R1 – R5: No significant cumulative effects during operation.	N/A	No significant cumulative residual effects (R1 – R5) during operation.
Outdoor Receptors (O1)	No significant effects during construction or operation.	N/A	No significant residual effects.
	No significant cumulative effects during operation.	N/A	No significant cumulative residual effects during operation.
Chapter 7: Ecology			
Nature Conservation D	<b>Designations</b>		
Shoolbraid / Belhangie Woods Ancient Woodland	Moderate Adverse and Significant effects during construction or operation.	Compensatory Planting to compensate for the loss of ancient woodland on site. The details of the compensatory planting areas would be determined post-consent within a compensatory planting plan.	No significant residual effects during construction or operation.
Habitats			
Other broadleaved woodland; Other Scot's Pine woodland;	No significant effects during construction or operation.	Other broadleaved woodland: Riparian Planting Other Scot's Pine woodland: Compensatory planting of native conifer woodlands.	No significant residual effects during construction or operation.
Dwarf shrub heath; and Blanket bog.		Blanket bog: Restoration of remaining degraded habitat.	
		Off-site biodiversity enhancement opportunities would be explored within the Aberdeenshire Council area to compensate for the effects on habitats lost and further enhance habitats to achieve	



Topic / Receptor	Effect Significance (Pre- Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		an overall biodiversity net gain and beneficial impact overall.	
	No significant in combination cumulative effects during construction or operation.	N/A	No significant in combination cumulative residual effects during construction or operation.
Protected Species			
Scottish Wildcat;  Bats – disturbance to roosting bats; and  Badger.	No significant effects during construction or operation.	Undertake pre-construction surveys.  Implementation of Species Protection Plans (SPP's) for Scottish Wildcat, Bats and Badgers.	No significant residual effects during construction or operation.
		Additional measures to be brought into the final Scottish Wildcat SPP:	
		Engagement with Saving Wildcats to obtain and share data on collared wildcats to further aid detailed design.	
		<ul> <li>Targeted camera trapping of key areas of infrastructure.</li> <li>If wildcat dens are identified during camera trapping or preconstruction surveys, disturbance buffers to be determined and timing</li> </ul>	
		restrictions confirmed.  • Appropriate licencing procedures (if required)	
		Additional measures for Bats:     Application of disturbance protection buffers for access tracks that are in close proximity to potential	
	No significant in combination cumulative effects during construction or operation.	bat roosts.  N/A	No significant in combination cumulative residual effects during construction or operation.

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Topic / Receptor	Effect Significance (Pre- Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Goshawk; Peregrine; Golden Plover (wider area population); and Black Grouse.	No significant effects during construction or operation.	By way of a precautionary approach, bird diverters would be installed along a section of the OHL closest to areas where higher conservation value species are more active.  Specific pre-construction survey to confirm the presence of target species within areas of Forestry and Land Scotland (FLS) land prior to construction. To be discussed and agreed with NatureScot and FLS.	No significant residual effects during construction or operation.
	No significant in combination cumulative effects.	N/A	No significant in combination cumulative residual effects.
Chapter 9: Geology, H	ydrology and Hydrogeology		
Peat and Carbon Rich Soil; Surface Water and Groundwater Quality;	No significant effects during construction or operation.	Confirmatory water quality monitoring	No significant residual effects during construction or operation.
Surface and Groundwater Flow; Flood Risk; and Designated Sites, Drinking Water Protected Areas and Private Water Supplies.	No significant cumulative effects during construction or operation.	N/A	No significant cumulative residual effects during construction or operation.
Chapter 10: Cultural H	eritage		
Non-designated Cultural Heritage Assts (Assets 1 – 18)	Asset 1h (boundary stone wall): Moderate Adverse and significant effects during construction (no significant effects during operation).  Asset 2 (triangulation marker): Moderate Adverse and significant effects during construction (no significant effects during operation).  Asset 3 (triangulation pillar): Moderate Adverse and significant effects and significant effects	During Construction  The remains of Asset 1h (boundary stone wall); Asset 4 (a cottage with associated remains) and Asset 11 (building with enclosure) would be marked out with a suitable standoff buffer to be agreed with Aberdeenshire Council Archaeology Service (ACAS) for avoidance during the construction phase. These assets would be identified by placement of high visibility markers facing	No significant residual effects during construction or operation.

Topic / Receptor	Effect Significance (Pre- Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	during construction (no significant effects during operation).  Asset 11 (building with enclosure): Moderate Adverse and significant effects during construction (no significant effects during operation).  Potential for buried undiscovered archaeology: Moderate Adverse and significant during construction (no significant effects during operation).  All other non-designated heritage assets, no significant effects during construction or operation.	the working area, ensuring implementation of an archaeological exclusion zone, providing effective protection of these features during the construction phase.  The upstanding / visual remains of Asset 2 (triangulation marker) and Asset 3 (triangulation pillar) should be avoided during construction works.  Where proposed access tracks intersect Asset 12 (enclosure) north-west of Bogiuran, it should be routed through an existing gate or through broken or less well preserved sections of bank where possible, with disturbance to the enclosure bank kept to a minimum.  Any upgrade works (i.e. road widening) required along the existing access track where it passes the site of Asset 13 (former building), should be kept to the opposite edge side of the heritage asset.  The Applicant would seek to agree the scope of the archaeological watching brief(s) with ACAS in advance of construction works with the agreed scope of work confirmed in a Written Scheme of Investigation (WSI) signed off prior to commencement of construction works, including enabling works.  If new archaeologically significant discoveries are made during archaeological monitoring, and it is not possible to preserve the discovered remains in situ, provision would be made for the excavation of any archaeological deposits encountered, where deemed necessary by ACAS. This provision would include the consequent production of written reports on the findings, with postexcavation analysis and publication of the results of	

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		the works, where appropriate.	
		Post-construction monitoring would be carried out to:	
		check that marking out of heritage assets has been effective and that none of the heritage assets have been disturbed by construction works; and	
		check that all markers have been removed from heritage assets following completion of the Proposed Development.	
		During Operation  Construction of any temporary access tracks for required maintenance would take into account the construction phase mitigation (listed above).	
	No significant cumulative effects during construction or operation.	N/A	No significant cumulative residual effects during operation.
Designated Heritage Assets  Scheduled Monument: Cairn o'mount, cairns;	No significant effects during construction or operation.	N/A	No significant residual effects during construction or operation.
and Category C Listed Building: Brawliemuir Farmhouse	No significant cumulative effects during operation.	N/A	No significant cumulative residual effects during operation.
Chapter 11: Forestry			
Direct Loss of Forest Resource Commercial (coniferous);	No significant effects during construction or operation.	The Applicant is committed to making arrangements to plant off-site the equivalent area of permanent woodland loss (46.46 hectares) as	No significant residual effects during construction or operation.
Broadleaved woodland; and Ancient Woodland)	No significant cumulative effects during construction or operation.	compensatory planting.	No significant cumulative residual effects during construction or operation.
Indirect Effects from Management Felling	No significant effects during construction or operation.	Any felling would require approval through an amendment of the Mearns Forest Landscape	No significant residual effects during construction or operation.



Topic / Receptor	Effect Significance (Pre- Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		Management Plan (LMP) or Felling Licence Application (FLA) with the approval of Scottish Forestry.	
Chapter 12: Socio-Eco	nomic, Tourism and Recrea	tion	
Construction	,		
Socio-economic	No significant effects during construction or operation.	N/A	No significant residual effects during construction or operation.
	Moderate Beneficial and Significant cumulative effects during construction.  No significant cumulative		Moderate Beneficial and Significant cumulative residual effects during construction.
	effects during operation.		No significant cumulative residual effects during operation.
Tourism and Recreation	No significant effects during construction or operation.	Outdoor Access Management Plan	No significant residual effects during construction or operation.
	No significant cumulative effects during construction or operation.		No significant cumulative residual effects during construction or operation.
Chapter 13: Traffic and	l Transport		
Users and Residents of the B966 and C7K roads	No significant effects during construction or operation.	During Construction  Construction Traffic  Management Pan (CTMP)  (including a Site Worker  Travel Plan).	No significant residual effects during construction or operation.
		Road Condition Survey.  Outdoor Access	
		Management Plan.  During Operation	
		Maintenance of Site entrance roads.	



Topic / Receptor	Effect Significance (Pre- Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	No significant cumulative effects during construction or operation.		No significant cumulative residual effects during construction or operation.

#### 14.2 Effect Interactions

- 14.2.1 As defined in Section 5.5 of **Chapter 5: EIA Process and Methodology**, effect interactions can occur when the combined or synergistic effects caused by the combination of a number of effects on a particular receptor may collectively cause a more significant effect than individually. A theoretical example is the culmination of disturbance from dust, noise, vibration, artificial light, human presence and visual intrusion on sensitive fauna (e.g. certain bat species) adjacent to a construction site. Such effect interactions have been considered where relevant within the specialist topic chapters of this EIA Report.
- 14.2.2 Whilst there is potential for localised effect interactions due to the combination of construction traffic and changes to visual amenity at some building based, route and outdoor receptor locations, any such interaction would be temporary, intermittent and short-term. When considering the residual environmental effects for each technical topic within this EIA Report, no effect interactions have been identified that could result in an increase to the predicted effect.

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