10. MITIGATION PROPOSALS

The key mitigation measures proposed to reduce the potential effects of the Project are described in **Table 10.1**. Mitigation measures are split into two elements: those specific to the Proposed Development (substation and ancillary infrastructure) and those specific to the Associated Development (overhead line diversion).

Embedded mitigation measures have been integral to the design evolution of the Project as described in **Chapter** 2: **Project Description**.

Table 10.1 Mitigation Summary

Chapter	Topic	Proposed Development Mitigation Measures	Associated Development Mitigation Measures
General	General	A Construction Environmental Management Plan (CEMP) will be the overarching document which combines the principles of all other management plans and environmental plans outlined within this EA Report and would support Construction Method Statements (CMSs). SSEN Transmission's General Environmental Management Plans (GEMPs) (see Annex A) will be implemented through the CEMP and include: • Bad Weather • Biosecurity (On Land) • Contaminated Land • Dust Management • Forestry • Oil Storage and Refuelling • Private Water Supplies • Restoration • Soil Management • Waste Management • Watercourse Crossings • Working in or Near Water • Working with Concrete	
Landscape and Visual	Embedded Mitigation	 A number of design principles have been considered in order to minimise landscape and visual impacts as described in Chapter 3: Landscape and Visual: Land clearance and occupation will be limited to necessary areas only to minimise the geographic spread of the infrastructure and limit the potential impact on the local landscape fabric. The Proposed Development and Associated Development access tracks will utilise existing forestry tracks to minimise effects associated with peripheral parts of the Project; The number of new towers comprising the Associated Development has been limited as far as possible to minimise the effects resulting from this component of the Project; 	

Chapter	Topic	Proposed Development	Associated Development
		Mitigation Measures	Mitigation Measures
		 Temporary tracks and temporary overhead line diversions (for construction purposes) would be reinstated at the end of the construction phase, thereby further limiting the geographic extent of potential residual effects; In terms of colour and materials, buildings would be painted with a recessive colour (dark-brown, such as RAL 8014: Sepia Brown or similar approved) to assist blending in with the surrounding landscape context comprising plantation forestry; 	
Ecology & Ornithology	Habitats and Flora	Reinstatement of bog/mire will repla	
	Tree Pruning of AWI	A pre-construction Ancient Woodlar (optimum survey period April – June An ECoW shall be present when an	e).
		within an Ancient Woodland.	y tice works are to be undertaken
	Protected	A pre-construction site walkover sur	vey will be completed by a suitably
	Species	qualified Ecological Clerk of Works	(ECoW).
		Should a species be identified, the appropriate Species Protection Plans (SPPs) (see Annex H of this EA Report) will be followed do construction. SPPs include bats, otter, red squirrel and badger, we have the second s	
	Nesting birds	cat, reptiles and pine marten. Habitat removal will be undertaken of	outside the breeding season if
	Nesting birds	practicable (March to August inclusi	
		If this is not possible, a pre-construction on the habitat to be lost within the P determine if any nesting birds are process.	Project will be undertaken to
		If nesting birds are identified, the SS will be implemented by a suitably ex	SEN Transmission SPPs (Annex H) operienced ECoW.
		If there is a delay to commencing coremoval, further mitigation may be risite (e.g., regular human presence, devices).	necessary to deter birds using the
	Black Grouse	A pre-construction black grouse surveys shall be undertaken if any works are proposed to be undertaken within the black grouse breed season (April to May).	
An ECoW shall undertake a preconstruction walkow area of the nearest lek and its surrounds to identify in present.		•	

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¹ UK Government Wild birds: surveys and mitigation for development projects. Available at https://www.gov.uk/guidance/wild-birds-surveys-and-mitigation-for-development-projects

Chapter	Topic	Proposed Development Mitigation Measures	Associated Development Mitigation Measures	
		If any leks be identified within the footprint of the Project or with the black grouse Protection Zone as stipulated in the SSEN SPP, a 300 m to 500 m disturbance buffer will be established (as stipulated in the bird SPP). No activity will occur within these buffer areas two hours after sunrise and two hours before sunset within the main black grouse lekking season (April to May).		
		If the existing access track fall within any lek buffer zones, a maximum speed limit of 15 mph shall be enforced, and personnel will remain within vehicles wherever possible to minimise the possibility of disturbance to any leks. Any construction activity along the existing access track, such as track widening, shall take place outside of the black grouse breeding season (April to July) where possible, or if not, at least 300 m from lek sites and/or outside of the daily lekking period. Where possible, gates within 300 m of lek sites will remain open after first arrival, avoiding the need for every subsequent entry to open and close the gate and the associated potential disturbance to the lek due to pedestrian activity.		
Forestry	General	Best practice as specified by Scottish Forestry and Forest Industry Safety Accord (FISA) will be implemented at all times, including: BS 5837 (2012) – Trees in Relation to Design, Demolition and Construction; and The Forestry Commission publication 'Managing Forest Operations		
	Replanting	to Protect the Water Environment'. A detailed landscaping plan will be produced. Off-site compensatory planting will be confirmed.		
		The management felling area (either side of the 85m overhead line route) will be replanted by the landowner in-line with Scottish Forestry felling licence regulations.		
Hydrology, Hydrogeology and Geology	Embedded Mitigation	The following mitigation measures relating to the hydrological environment are embedded into the design and construction of the Project: • Water crossing of watercourses will be avoided in the design where possible; and • Access will utilise existing forestry tracks where practicable.		
	WCEMP	Construction good practice methods and works for protection of hydrological receptors are also outlined in the Annex N: Water Construction Environmental Management Plan (WCEMP) . The WCEMP includes mitigation measures to protect private water supplies this includes:		

Chapter	Topic	Proposed Development Mitigation Measures	Associated Development Mitigation Measures	
		 Chemical pollution prevention including measures for appropriate chemical storage; Mitigation measures and best practice in the event of a spill; Appropriate use of concrete onsite including use in watercourse crossing design and concrete washout areas; 		
		Mitigation measures relating drainage are considered as	ng to sedimentation and site s part of PWS protection;	
			ter quality monitoring programme to to construction, during construction	
		Specific PWS mitigation is Supplies GEMP.	detailed in the Private Water	
		Agreed mitigation for protection of p Water, also detailed in the WCEMP, the site entrance during construction	, include fencing off the hydrant at	
		Water quality and sediment pollution prevention will be managed using best practice guidance cited in the following GEMPs:		
		Working in or near Water;		
		Soil Management;Contaminated Land;		
		Oil Storage and Refuelling;		
		Bad Weather;		
		Working with concrete; and	d	
		Working in Peatland and S	ensitive Habitats	
	Site Drainage	Drainage from the site will include	n/a	
	_	elements of SuDS design.		
	Peat Management	A Peat Management Plan has been produced (See Annex O) which details the necessary measures that should be followed with regards to handling and storing peat including: • The surface layer of peat (acrotelm) and vegetation will be stripped separately from the catotelmic peat. This will typically be an excavation depth of up to 0.5 m; • Careful handling is required to retain any existing structure and integrity of the excavated materials and thereby maximise the potential for excavated material to be re-used; • Acrotelmic material will be replaced as intact as possible once construction progresses/as it is complete;		
		To minimise handling and transportation of peat, acrotelmic will be replaced, as far as is reasonably practicable, in the locality from which it was removed. Acrotelmic material is to be		
		placed on the surface of re		

Chapter	Topic	Proposed Development	Associated Development
		Mitigation Measures	Mitigation Measures
		Mitigation Measures Temporary storage of peat will be minimised, with reinstatement occurring as early as possible during the construction works; Suitable areas should be sited in locations with lower ecological value, low stability risk and at a suitable distance from water courses; Reinstatement will, in all instances, be undertaken at the earliest opportunity to minimise storage of turves and other materials; Managing the construction work as much as possible to avoid periods when peat materials are likely to be wetter (i.e., high rainfall events); and	
		Transport of peat on-site fr and re-use site should be r	om excavation to temporary storage
	Peat Slide Hazard Risk Assessment	investigations; Identification of areas sense prior to detailed design; Development of a drainage of concentrated flow and we hydrology; Design of a Development of hardstanding that will required during the operation of the Inspection and maintenance construction and operation Identification of suitable are construction prior to communication.	te the PSRA and influence the r to detailed design; ssary following detailed ground sitive to changes in drainage regime e strategy that will not create areas fill not affect the current peatland drainage system for tracks and fire minimal ongoing maintenance substation; the of the drainage systems during the gas for stockpiling material during
		During the construction stage, toolbox talks should be delivered to site personnel, which should contain but not be limited to the following information: • Peat slide risks and associated indicators;	
		 Best practise techniques when working in the peatland environment; and Discussion on being careful not to disrupt or disturb the natural drainage on slopes. 	
Archaeology and Cultural Heritage	Consultation	The mitigation strategy developed w West of Scotland Archaeological Se	

Topic	Proposed Development Mitigation Measures	Associated Development Mitigation Measures
Surface Walkover	A rapid preliminary walkover to identify surface archaeological remains will be conducted prior to works on each of the Proposed and Associated Development elements.	
Watching brief	An archaeological watching brief is required for all ground-breaking works. It is recommended that archaeological exclusion zones are established 15 m each side of watercourses, where the ground has been less disturbed by forestry planting and felling.	It is recommended that an archaeological watching brief be maintained during all ground-breaking activity.
Heritage assets	Standing stone - CE_019 A buffer zone of 10 m will be demarcated around the asset if works are to be carried out in near proximity.	
Embedded Mitigation	Construction works are not to take place during the night-time period, and rock breaking must not be undertaken without prior written	
Construction Traffic Management Plan (CTMP)	The Contractor will share a CTMP with ABC and Transport Scotland (where appropriate) identifying appropriate and safe routes for construction traffic which will include the following mitigation measures: • The Contractor will liaise with ABC to determine appropriate traffic management arrangements for construction vehicle movements; • The Contractor will agree appropriate and safe routes to and from the Project with ABC. All construction vehicles will be required to use approved access routes; • Movement of abnormal loads will be restricted to take place outside peak flow hours to minimise disruption to general traffic flows; • Measures will be implemented to minimise dust and dirt being deposited on the carriageway due to construction operations; • Appropriate signage warning other motorists and pedestrians of the presence of construction vehicles will be implemented; • Appropriate signage restricting vehicle speeds will be considered in discussion with ABC; • Police escort or other escort approved by Police Scotland will accompany abnormal load vehicle movements for the delivery of transformer components or any other loads deemed necessary by the road's authorities; and • Use of the CEMP to monitor and ensure that agreed mitigation	
	Surface Walkover Watching brief Heritage assets Embedded Mitigation Construction Traffic Management	Surface Walkover A rapid preliminary walkover to ider will be conducted prior to works on Associated Development elements. Watching brief An archaeological watching brief is required for all ground-breaking works. It is recommended that archaeological exclusion zones are established 15 m each side of watercourses, where the ground has been less disturbed by forestry planting and felling. Heritage assets A buffer zone of 10 m will be demarcated around the asset if works are to be carried out in near proximity. Embedded Mitigation Traffic (where appropriate) identifying approximate and rock breaking must not be under agreement from ABC. Construction Traffic (where appropriate) identifying approximate and proximate and proximat

Chapter	Topic	Proposed Development Mitigation Measures	Associated Development Mitigation Measures
	Abnormal	Further consultation and	n/a
	Invisible Load	notification will be undertaken	
	(AIL)	with relevant local authorities	
		including ABC and Police	
		Scotland.	
		A SSEN Transmission	
		Community Liaison Manager will	
		be appointed to the Project to	
		ensure that the local community	
		and the general public have	
		enough information to plan their	
		journey and avoid abnormal load	
		movements.	