

10. MITIGATION PROPOSALS

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

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).

Table '	10.1	Mitigation	Summary
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Chapter	Торіс	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 Waste Management Waste Management Wastercourse Crossings Working in or Near Water Working in Sensitive Habitats	
I andscane and	Embedded	A number of design principles have been considered in order to	
Visual	Mitigation	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; Temporary tracks and temporary overhead line diversions (for construction purposes) would be reinstated at the end of 	



Chapter	Торіс	Proposed Development Mitigation Measures	Associated Development Mitigation Measures
		the construction phase the	ereby 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 RAI, 8014.	
		Sepia Brown or similar approved) to assist blending in with	
		the surrounding landscape context comprising plantation	
		forestry;	
Ecology &	Habitats and	Reinstatement of bog/mire will repla	ace lost habitat.
Ornithology	Flora		
	Tree Pruning A pre-construction Ancient Woodland survey shall be unde		nd survey shall be undertaken
	of AWI	(optimum survey period April – June).	
			,
		An ECoW shall be present when any tree works are to be undertake within an Ancient Woodland	
	Protected	A pre-construction site walkover su	rvey will be completed by a
	Species	suitably qualified Ecological Clerk c	f Works (ECoW).
		Should a species be identified, the appropriate Species Protection Plans (SPPs) (see Annex H of this EA Report) will be followed during	
		construction. SPPs include bats, otter, red squirrel and badger, wild	
		cat, reptiles and pine marten.	
	Nesting birds	Habitat removal will be undertaken outside the breeding season if	
		practicable (March to August inclusive) ¹ .	
		If this is not possible, a pre-constru	ction site walkover survey focussing
		on the habitat to be lost within the Project will be undertaken to	
		determine if any nesting birds are p	resent.
		If nesting birds are identified, the S	SEN Transmission SPPs (Annex
		H) will be implemented by a suitabl	y experienced ECoW.
		If there is a delay to commencing c	onstruction following habitat
		removal, further mitigation may be	necessary to deter birds using the
		site (e.g., regular human presence,	tapes across the site, other scaring
		devices).	
Forestry	General	Best practice as specified by Scotti	sh Forestry and Forest Industry
		Satety Accord (FISA) will be implen	nented at all times, including:
		• BS 5837 (2012) – Trees in	Relation to Design, Demolition
		and Construction; and	
		I he Forestry Commission	publication 'Managing Forest
		Operations to Protect the	vvater Environment'.
	Replanting	A landscape mitigation pla	n will be created and off-site
1	1	compensatory planting will	be confirmed.

 $^{^{1}}$ 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



Scottish & Southern Electricity Networks

Chapter	Торіс	Proposed Development	Associated Development
		Mitigation Measures	Mitigation Measures
		The management felling a	rea (either side of the 85m
		overhead line route) will be replanted by the landowner in-line	
		with Scottish Forestry felling licence regulations.	
Hydrology,	Embedded	The following mitigation measures relating to the hydrological	
Hydrogeology and	Mitigation	Project:	
Geology		50 m watercourse buffers for construction works with the	
		exception of watercourse crossings along access tracks;	
		Water crossing of waterco	urses will be avoided in the design
		where possible; and	
		Access will utilise existing forestry tracks to minimise effects.	
	WCEMP	Construction good practice methods and works for protection of	
		hydrological receptors are also outlined in the Annex J: Water	
		Construction Environmental Management Plan (WCEMP)	
		The WCEMP includes mitigation measures to protect public water	
		supplies, this includes (but not limited to):	
		Chemical pollution prevention including measures for	
		appropriate chemical storage;	
		 Mitigation measures and best practice in the event of a spill; 	
		Mitigation measures relating to management of silt and	
		sediment on site;	
		Appropriate use of concrete onsite including use in watercourse crossing design and concrete washout areas:	
		watercourse crossing desi	gn and concrete washout areas;
		Recommendation for a surface wat	er quality monitoring programme to
		be conducted prior to construction, during construction and post-	
		construction due to the presence of private water supplies that may be	
		impacted. This would also include daily visual inspections during	
		proposed construction activities.	
		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; an 	d
		Working in Sensitive Habit	ats
	Site	Drainage from the site will include	n/a
	Drainage	elements of SuDS design.	
	Peat	A Peat Management Plan has beer	produced (See Annex O) which
	Management	details the necessary measures that	t should be followed with regards
1		to handling and storing peat including:	



Chapter	Торіс	Proposed Development	Associated Development
		Miligation measures	Millyation measures
		 Mitigation Measures Mitigation Measures 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 reinstatement areas; 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 fill 	rom excavation to temporary
		storage and re-use Site sh	nould be minimised.
	Peat Slide Hazard Risk Assessment	 storage and re-use site sites The following mitigation measures a stage and pre-construction to valida detailed design of the Project: Ground investigations prio Update the PSRA as nece investigations; Identification of areas sens regime prior to detailed de Development of a drainage of concentrated flow and v hydrology; Design of a Development of the value of the operation of the value of the operation of the value of the operation of the inspection and maintenance construction and operation 	should be minimised. should be adopted post-consent ate the PSRA and influence the or to detailed design; essary following detailed ground sitive to changes in drainage sign; e strategy that will not create areas vill not affect the current peatland drainage system for tracks and tire minimal ongoing maintenance e substation; ce of the drainage systems during n; reas for stockpiling material during



Chapter	Торіс	Proposed Development	Associated Development
		Mitigation Measures	Mitigation Measures
		Consideration of specific construction methods appropriate	
		for infrastructure in peat land (i.e., geogrids) as part of design	
		Development.	
		During the construction stage tool	oox 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	Consultation	The mitigation strategy developed will involve consultation with the	
Cultural Heritage		West of Scotland Archaeological So	ervice (WoSAS).
	Survey	It is recommended that a second survey of the site is carried out prior	
		to works commencing in order to as	ssess changes in design and the
		areas inaccessible during the initial	survey, as a result of dense
		juvenile tree cover.	
	Watching	An archaeological watching brief	A watching brief will be
	briei	is required for all ground-breaking	maintained during ground-
		Archaeological exclusion zones	Associated Development
		will be established 15 m each	Archaeological exclusion zones
		side of watercourses, where the	will be established 15 m each side
		ground has been less disturbed	of watercourses, where the
		by forestry planting and felling.	ground has been less disturbed
			by forestry planting and felling.
	Heritage	Cup marked stone - CM_013	None identified, but the potential
	assets		for unidentified buried
		A buffer zone of 20 m is	archaeological assets remains.
		demarcated around the asset if	
		works are to be carried out in	
		hear proximity, and a watching	
		ground-breaking activity if works	
		are to be carried out in near	
		proximity.	
Noise	Embedded	Construction works are not to take	place during the night-time period,
	Mitigation	and rock breaking must not be undertaken without prior written	
		agreement from ABC.	
Traffic and	Construction	The Contractor will share a CTMP with ABC and Transport Scotland	
Transport	Traffic	(where appropriate) identifying appropriate and safe routes for	
	Management	construction traffic which will include the following mitigation	
	Plan (CTMP)	measures:	



Chapter	Торіс	Proposed Development Mitigation Measures	Associated Development Mitigation Measures
		 The Contractor will liaise w traffic management arrang movements; The Contractor will agree a from the Project with ABC. required to use approved a Movement of abnormal loa outside peak flow hours to traffic flows; Measures will be implement deposited on the carriagew Appropriate signage warni of the presence of construe Appropriate signage restrict considered in discussion w Police escort or other escort accompany abnormal load delivery of transformer cort deemed necessary by the Use of the CEMP to monit 	vith ABC to determine appropriate ements for construction vehicle appropriate and safe routes to and All construction vehicles will be access routes; ads will be restricted to take place minimise disruption to general need to minimise dust and dirt being vay due to construction operations; ng other motorists and pedestrians ction vehicles will be implemented; cting vehicle speeds will be vith ABC; ort approved by Police Scotland will vehicle movements for the mponents or any other loads road's authorities; and or and ensure that agreed
	A la 12 a 111 a 1	mitigation measures are being implemented.	
	Abnormal Invisible Load (AIL)	 Further consultation and notification will be undertaken 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. n/a 	

