17 Schedule of Environmental Commitments

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17 Schedule of Environmental Commitments

17.1 Introduction

17.1.1 Table 17.1 provides a Schedule of Environmental Commitments for the Proposed Development. This supersedes Chapter 17 of the EIA Report and provides a comprehensive record of the mitigation measures to which the Applicant has committed. It provides details of how the proposed mitigation has changed from the 2019 EIA Report and where no change has been made to the previously proposed mitigation this has been stated.

Table 17.1 Schedule of Environmental Commitments

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing		
3. Proposed Develo	B. Proposed Development					
Turbines and associated infrastructure locations	A micro-siting allowance of up to 100 m in all directions is being sought in respect of each turbine and its associated infrastructure in order to address any potential difficulties which may arise in the event that preconstruction surveys identify unsuitable ground conditions or environmental constraints that could be avoided. The assessments within this EIA report have included the considerations of this 100 m micro-siting and it does not alter the conclusions formed as to worst case effects. Any variation of between 50 m and 100 m shall only be permitted following prior written approval of Shetland Islands Council (SIC) in consultation where relevant with aviation consultees, Scottish Water, Scottish Environment Protection Agency (SEPA) and/or Scottish Natural Heritage (SNH). It is proposed that the final positioning of all infrastructure will be agreed through an appropriately worded planning condition.	Pre-construction only	Commitment remains unchanged			
Turbine Foundations	The actual foundation design will be specific to the site conditions as verified during detailed site investigations undertaken before construction commences.	Pre-construction only	Commitment remains unchanged			
Access	Appropriate highway safety measures will be agreed with Shetland Island Council (SIC), with necessary signage or traffic control measures implemented throughout the construction phase.	Pre-construction	Commitment remains unchanged			
	The Dalsetter Hill Road (known locally as the Old Cullivoe Road) to the Proposed Development site access track will be improved to a suitable load-bearing surface of minimum 5 m width from the A968 to the junction with the new access tracks. Access to the site from the Old Cullivoe Road will controlled by a security hut adjacent to the access track to ensure the safety of the staff and the public. The Old Cullivoe Road is designated as a Core Path and will be	Construction/ Operation Construction/	Commitment remains unchanged Commitment remains unchanged			
	accessible throughout the operational life of the Proposed Development. The road will remain open to the public during	Operation/				

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	construction, with signage erected to alert members of the public of		
	construction traffic. A regular maintenance plan will be set out as part		
	of the site traffic management plan to ensure the road is kept in an		
	acceptable condition. Pedestrian access will be maintained during		
	construction, but in the interests of health and safety, will be		
	segregated by means of temporary fencing running parallel to the		
	access road. If the path needs to be temporarily diverted during		
	construction, any temporary diversions will be clearly signposted. It is		
	proposed that details of temporary path diversions can be secured by		
	an appropriately worded condition.		
Watercourse	Where watercourses will be crossed by access tracks the crossings		Commitment remains unchanged
Crossings	may be simple concrete pipe culverts or arch culverts depending on	Pre-construction	
	the watercourse and will be designed in accordance with SEPA Good	only	
	Practice Guidance (2010).		
	The design of each crossing will be determined following ground		Commitment remains unchanged
	investigations and it is proposed that the final solution and detailed		
	design for all water crossings will be addressed through an		
	appropriately worded condition in order to ensure that the works	Pre-construction	
	comply with the Water Environment (Controlled Activities) (Scotland)	only	
	Regulations 2011. Where necessary, CAR licences for work affecting		
	watercourses will be applied for post-consent, prior to construction		
	commencing once final design has been reached.		
Drainage	A detailed drainage design will be undertaken and provided to SEPA	Pre-construction	Commitment remains unchanged
	and SIC prior to construction.	only	
Borrow Pits	Detailed site investigations will be carried out prior to construction to		Commitment remains unchanged
	confirm the rock type, rock characteristics and suitability, as well		
	potential volumes to be extracted from the borrow pit search areas.	Pre-construction	
	The final borrow pits will be defined within the Construction		
	Environmental Management Plan (CEMP). The pollution control	only	
	measures to be implemented during usage of the borrow pits and its		
	reinstatement will also be covered within this document.		
Fuel and Oil	Any fuel or oil held on site will only be of an amount sufficient for the	Construction	Commitment remains unchanged
	plant required. This will be stored in a bunded area and an oil	Construction	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
Construction	interceptor will be installed in the construction compounds to prevent pollution in the event of a spillage. There will be no long-term storage of lubricants or petrochemical products on-site at the Proposed Development The Applicant shall produce and adhere to a CEMP, developed in		Commitment remains unchanged
Environmental Management Plan (CEMP)	accordance with the joint Scottish Renewables, Scottish Natural Heritage, SEPA, Forestry Commission Scotland and Historic Environment Scotland guidance on Good Practice During Windfarm Construction (2015). The CEMP shall describe how the Applicant will ensure suitable management of, but not limited to, the following environmental issues during construction: - noise and vibration; - dust and air pollution; - surface and ground water; - ecology (including protection of habitats and species); - agriculture (including protection of livestock and land); - cultural heritage; - waste (construction and domestic); - pollution incidence response (for both land and water); and - site operations (including maintenance of the construction compound, working hours and safety of the public). The Applicant shall provide the following for integration within the CEMP: - details of all environmental mitigation which is described within this chapter and how the Applicant will implement this mitigation and monitor its implementation and effectiveness; - details of how the Applicant will abide by the local and national legislative requirements e.g. The Water Environment (Controlled Activities) (Scotland) Regulations 2011 (amended 2013); - details of how the Applicant will implement and monitor construction best practice techniques; - details of a Peat Management Plan, following the principles	Pre-construction/ Construction	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing	
	set out in the joint Scottish Renewables and SEPA guidance on the assessment of peat volumes, reuse of excavated peat and the minimisation of waste' (Scottish Renewables and SEPA, 2012); details of a Waste Management Plan which will include opportunities to reduce and re-use waste on site, recycling of waste which cannot be reused and disposal of waste to landfill; and details on how the Applicant will liaise with the public and local landowners and how they will respond to any queries and/or complaints.			
	The Applicant shall consult with SNH, SEPA, Historic Environment Scotland and SIC on the production of the CEMP.	Pre-construction	Commitment remains unchanged	
	Where applicable the CEMP will cross-reference and correspond with the Construction Traffic Management Plan (CTMP).	Pre-construction	Commitment remains unchanged	
Construction Traffic Management Plan (CTMP)	The CTMP will detail the management of traffic to and from site, including abnormal loads and daily workers commute. It shall also include mitigation for impacts to public transport, local private access and public foot paths. The Applicant shall amend and improve the CTMP as required throughout the construction and decommissioning period.	Pre-construction/ Construction	Commitment remains unchanged	
Health and Safety	High standards of health and safety shall be established and maintained. At all times, all activities will be undertaken in a manner compliant with applicable health and safety legislation and with relevant good practice as defined under applicable statutory approved codes of practice and guidance.	Construction/ Operation	Commitment remains unchanged	
Operation and Maintenance	Any diesel or oil stored on-site will be held within an appropriately bunded location within the substation building.	Operation	Commitment remains unchanged	
	In the unlikely event that a major turbine component requires replacement, vehicles will use the new access tracks and crane pads.	Operation	Commitment remains unchanged	
Operation Environmental	The Applicant will implement an OEMP. Similar to the CEMP the OEMP will set out how the Applicant will manage and monitor environmental	Operation	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
Management Plan (OEMP)	effects throughout operation. This will be developed in consultation with SNH, SEPA and SIC and will include but not be limited to: - details on the track, water crossings and turbine maintenance; - the control and monitoring of noise; - the control and monitoring of surface and groundwater; - a pollution prevention plan and a pollution incidence response plan; - details of how the Applicant will abide by the local and national legislative requirements e.g. The Water Environment (Controlled Activities) (Scotland) Regulations 2011; - an operational Peat Management Plan; and - a Habitat Management Plan and relevant protected species management plans.			
Decommissioning	The CEMP would be updated prior to decommissioning by the Principal Contractor to reflect current legislation and policy and will be agreed with SIC, SNH, SEPA and Historic Environment Scotland.	Decommissioning	Commitment remains unchanged	
5. Landscape and Vi	sual			
Design	Mitigation of landscape and visual effects is embedded in the design of the layout of the Proposed Development.	Pre-construction only	Commitment remains unchanged	
6. Ornithology				
Construction Environmental Management Plan (CEMP)	A CEMP will include the following best practice measures: - appointment of a suitably qualified and experienced Environmental Clerk of Works (ECoW) to oversee application of the CEMP; - a Habitat Management Plan (HMP); - pre-construction ornithological survey programme to provide updated baseline information to feed into the CEMP and other operational plan documents; - use of Method Statements during construction to include	Pre-construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	current good practice and prescribed use of low noise and vibration plant to limit disturbance and displacement effects; and development of an Operational Site Management Plan (OSMP) to include an HMP and maintenance task Method Statements.		
	Vegetation will be removed in the winter (between October and February inclusive but preferably between November and January). Any habitat cleared outside this period will be overseen by an ECoW	Construction	Commitment remains unchanged
Ground nesting birds	Internal construction tracks will, where possible, be laid down in winter. If work is to take place between March to August, vegetation on any areas for tracks, material laydown, turbine bases and other infrastructure will be kept short and devoid of vegetation until such time as they are developed. This will be achieved by regular mechanical cutting or strimming during the breeding season. These cleared areas will be checked by the ECoW for nesting birds, and further restrictions and measures put in place.	Construction	Commitment remains unchanged
	The ECoW will undertake surveys of birds within the site and record breeding success	Construction	Commitment remains unchanged
Red-throated Diver	Construction of infrastructure and turbines within 500 m of historical breeding lochans will not be undertaken when red-throated diver arrive (mid-March). The ECoW will monitor diver activity between mid-March to late-July. Once breeding is confirmed, and chicks observed, the construction buffer can be reduced to 300 m. Observations will continue within 500 m of active disturbance to check for signs of disturbance behaviour.	Construction	Commitment remains unchanged
	If heavy construction traffic or active works are anticipated to occur closer than 250 m of a historical breeding lochan, then work will only proceed following the completion of a checking survey that confirms that breeding red-throated diver are not present. If breeding red-throated divers are present, then work will only commence once the chicks have fledged and the nest vacated.	Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	No work or construction traffic will occur within 250 m of a breeding lochan	Construction	Commitment remains unchanged	
	Small, degraded lochans will be enhanced or new lochans created both on-site and offsite (if possible).	Pre-Construction	Commitment remains unchanged	
Waders and Merlin	ECoW will survey for breeding birds within a perimeter of up to 620 m of the Proposed Development footprint ahead of active works. The search distance is dependent on species and is detailed in Chapter 6 (Ornithology) section 6.7	Pre-construction/ construction	ECoW will survey for breeding birds within a perimeter of up to 620 m of the Proposed Development footprint ahead of active works. The search distance is dependent on species and has been reassessed during the SEI. The updated distances are detailed in SEI Chapter 6 (Ornithology) section 6.7	Pre- construction/ construction
	If breeding is confirmed within the survey perimeter then active works will be prohibited in that area (marked out by the ECoW), with allowance for passage by low-level construction traffic only until the ECoW is satisfied the nest is empty.	Construction	Commitment remains unchanged	
	The outcome of recorded nests will be recorded by the ECoW in an annual report.	Construction	Commitment remains unchanged	
Habitat Management Plan (HMP)	Identified management areas will be subject to managed grazing through the provision of stock fencing to benefit foraging and breeding habitat. These will be identified following consultation with SIC, SEPA, SNH and Scottish Water.	Operation	Commitment remains unchanged	
	Scrapes will be created in areas of managed blanket bog to provide feeding opportunities for waders.	Operation	Commitment remains unchanged	
Monitoring	A monitoring programme will be implemented to record the use of the site by birds following construction. The frequency and method of monitoring will be agreed with SNH.	Operation	A monitoring programme will be implemented to record the use of the site by birds following construction. The frequency and method of monitoring will be agreed with stakeholders.	Operation

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	N/A	N/A	Management measures outlined in the HMP will be monitored for the duration of the Management Plan. The information obtained through monitoring will be issued in annual reports to stakeholders, including SNH, RSPB Scotland, The Shetland Amenity Trust, Shetland Bird Club and SIC. The monitoring regime will be subject to review based on outcomes in each annual report.
7. Ecology and Natu	re Conservation		
Programme of Ecological Surveys	Preconstruction surveys of habitats and watercourse crossing points to identify any changes to otter or fish use of the channels, to feed into the final micro-siting process.	Pre-construction	Commitment remains unchanged
Environmental Protection and Guidance	Adherence to current environmental protection policies and guidance, including but not limited to: - Good Practice During Wind Farm Construction (SNH, 2015a) - Constructed tracks in the Scottish uplands (SNH, 2015b); - WAT-SG-75 (SEPA, 2018); - A Practical Guide to the CAR Regulations (SEPA, 2019); and - LUPS-GU31 (SEPA, 2014).	Pre-construction/ Construction/ Operation	Commitment remains unchanged
Construction Environmental Management Plan (CEMP)	A CEMP will include the following best practice measures: - appointment of a suitably qualified Environmental Clerk of Works (ECoW) to oversee application of the CEMP; - a Site Water Management Plan (SWMP); - a Peat Management Plan (PMP); - a Materials Management Plan (MMP) to include a Waste Policy/Management Plan; and - a Habitat Management Plan (HMP).	Construction	Commitment remains unchanged
Method	Use of method statements during construction to include current	Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	Previous Environmental Commitment good practice and prescribed use of low noise and vibration plant to limit fish avoidance behaviours when working near watercourses The HMP will be produced post consent and agreed with SIC, SNH and SEPA. The HMP will be based on the Outline HMP provided in Appendix 7.7 and will include the following: - Management and monitoring by an HMP Stakeholder Group Restoration and management of active blanket bog in the nine borrow pit search areas through the re-use of peat excavated for the Proposed Development and the management of livestock grazing Restoration of up to 37.5 ha of active blanket mire habitat at locations across Yell through local slope-reprofiling, seeding and control of grazing and peat cutting Creation of conditions for red-throated divers in lochans not currently used by the species through the restoration of degraded lochans and enhancement of existing lochans (creating floating peat islands/rafts and expanding the lochans).	Pre-construction/ Construction only	The HMP will be produced post consent and agreed with SIC, SNH and SEPA. The HMP will be based on the Outline HMP provided in SEI Appendix 7.1 and will include the following: - Management and restoration of blanket mire habitat in borrow pit areas within the Proposed Development site boundary through use of excavated peat and control of grazing. - Management and restoration	Operation
	lochans).		- Management and restoration of degraded blanket mire habitat elsewhere on Yell, out with the application boundary of the Proposed Development site, through local hagreprofiling, stabilisation of bare peat, and control of grazing and peat cutting Enhancement of currently unoccupied lochans to increase their potential value to breeding red-throated	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
			 Restoration of degraded lochans to provide suitable habitat for breeding redthroated divers. Creation of scrapes for waders to improve feeding areas. Protection and, where possible, enhancement of existing pools to improve feeding areas. Maintenance of mosaic habitat. Restoration and maintenance of heather vegetation which is neither too open and short nor too dense and tall. 	
Operational Site Management Plan (OSMP)	An OSMP to include an HMP and maintenance task Method Statements	Operation	Commitment remains unchanged	
Habitat Mitigation	Identification of appropriate exclusion zones around sensitive features, to prevent construction vehicle tracking through areas	Pre-construction	Commitment remains unchanged	
	Careful strip and retention of turves for re-use in the restoration of tracks and turbine batters	Construction	Commitment remains unchanged	
	Operative awareness education, in the form of toolbox talks, to ensure the value of the habitat is understood	Construction	Commitment remains unchanged	
	Wash-down of plant and other equipment will be mandatory prior to access to or egress from the site, to prevent potential biosecurity risks associated with plant movements	Construction	Commitment remains unchanged	
	N/A	N/A	Exclusion of livestock from the restored temporary borrow pit areas, to permit habitat recovery free from grazing pressure	Construction / Operation

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
Otter Mitigation	Development of an otter-specific protection plan	Pre-construction	Commitment remains unchanged	
	Driver awareness and 10 mph site speed controls to limit the risk of road traffic accidents	Construction/ Operation	Commitment remains unchanged	
	Avoid creating any obstructions to established otter pathways or access to open water as instructed by the ECoW	Construction	Commitment remains unchanged	
	Exclusion zone of 30 m minimum around any holt of resting place	Construction	Commitment remains unchanged	
	Avoid working in the vicinity of otter habitat during the hours of darkness and within two hours after sunrise and two hours before sunset. This can be reduced to one hour between November and February due to limited daylight	Construction	Commitment remains unchanged	
	Cap any exposed pipe systems when not being worked and provide exit ramps for any exposed trenches or excavations (to prevent otters entering and becoming trapped).	Construction	Commitment remains unchanged	
Fish Mitigation	Development of a fish species protection plan.	Pre-construction	Development of a fish species protection plan, which will include electro-fishing and macro-invertebrate surveys for 12 months prior to, during and 12 months after, construction.	Pre-construction
	A Site Water Quality Management Plan (SWMP) will be developed to ensure stream habitats and fauna are protected	Pre-construction	Commitment remains unchanged	
	Where possible stream crossings will avoid areas of salmonid spawning habitat	Construction	Commitment remains unchanged	
	Crossings should not create new barriers to migration of trout unless clearly upstream of potentially productive fish habitat	Construction only	Commitment remains unchanged	
	If substantial instream work is required, or there is likely to be significant disturbance (i.e. disturbance/removal of bed substrates for channel culverting) to the riverbed, SEPA may require that works avoid periods when eggs are in the gravel or fry are emerging. This would typically cover the period between October and May (SEPA 2010b).	Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	Regular monitoring of turbidity and suspended solids during construction, with the on-site ECoW checking areas where active works are taking place and areas where sediment run-off may be a concern	Construction	Commitment remains unchanged	
	A programme of water quality and aquatic biomonitoring, including salmonid fish	Construction	Commitment remains unchanged	
8. Noise				
Construction Environmental Management Plan (CEMP)	A CEMP will implement the following best practice measures: - any compressors brought on to site to be silenced or sound reduced models fitted with acoustic enclosures; - all pneumatic tools to be fitted with silencers or mufflers; - the majority of deliveries to be programmed to arrive during normal working hours only; - care to be taken when unloading vehicles to minimise noise. Delivery vehicles to be routed to minimise disturbance to local residents; - delivery vehicles to be prohibited from waiting within or in the vicinity of the site with their engines running; - all plant items to be properly maintained and operated according to manufacturers' recommendations in such a manner as to avoid causing excessive noise; - all plant to be sited so that the noise impact at nearby noise-sensitive receptors is minimised; - local hoarding, screens or barriers to be erected as necessary to shield particularly noisy activities; - normal working hours will be between 07:00 and 19:00 Monday – Friday, and 08:00 – 18:00 Saturday and Sunday, with the exception of turbine installation, which will take advantage of appropriate wind conditions when they occur; - night-time deliveries will be minimal and will only be undertaken with special consideration. Care will be taken to minimise noise when unloading vehicles; and	Construction	Commitment remains unchanged with the exception of normal working hours which will be between 07:00 and 19:00 Monday – Friday, and 08:00 – 18:00 Saturday, with no work undertaken on Sundays or public holidays. This is with the exception of turbine installation, which will take advantage of appropriate wind conditions when they occur	Construction

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	 construction traffic will be prohibited from unnecessary idling within the site boundary or at the site access points. 			
Communication	The contractor will be required to ensure effective liaison with the local community	Construction	Commitment remains unchanged	
Fixed (Non- turbine) Plant Noise (if required)	A noise mitigation scheme will include measures such as the following:	Pre-construction	Commitment remains unchanged	
Borrow Pits			Following detailed ground investigations, should blasting be required to remove rock then a blasting assessment including a vibration assessment will be undertaken and submitted to Shetland Island Council prior to construction commencing.	Pre-construction
9. Cultural Heritage				
Heatherdale to Cullivoe Road	All ground breaking works in the vicinity of the former road from Heatherdale to Cullivoe (Site 148) would be subject to archaeological monitoring in order to identify and accurately record the extent of any below ground remains associated with this feature prior to construction	Construction only	Commitment remains unchanged	
General Construction Mitigation	All known heritage features within 50m of the proposed working areas, including all areas to be used by construction vehicles, will be fenced off under archaeological supervision prior to construction. This fencing will be maintained throughout the construction period to ensure the preservation of these features.	Pre-construction/ Construction	Commitment remains unchanged	
	The paleoenvironmental potential of the site will thus be further assessed through the sampling and specialist analysis of a sediment core, which could provide environmental contextual detail to any	Pre-construction only	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	archaeological remains preserved within the site.			
	To mitigate the potential for previously unrecorded features to be impacted during the construction phase, an archaeological watching brief will be undertaken on a representative proportion of ground breaking works. Construction only	To mitigate the potential for previously unrecorded features to be impacted during the construction phase, an archaeological watching brief will be undertaken on all ground breaking works.	Construction	
	Details of mitigation will be agreed with SIC in consultation with the Shetland Island Amenity Trust through a Written Scheme of Investigation.	Pre-construction only	Commitment remains unchanged	
Heritage Interpretation Plan	A Heritage Interpretation Plan will be undertaken. The scope will be agreed with HES and SIC but will potentially include: - Investigation of the paleoenvironmental potential of Burgi Geos through the sampling and analysis of a sediment core to improve the understanding and appreciation of the past setting of the Burgi Geos fort and how it relates to its current setting. - A detailed archaeological survey within Heatherdale, coupled with improved access to information on the features identified and surveyed will serve to increase both our understanding of the historic landscape of the site and increase the knowledge of local communities. The findings would be disseminated via an interpretation leaflet or schools pack and on information boards	Operation only	Commitment remains unchanged	
10. Geology, Peat,	Hydrology and Hydrogeology			
Construction and Environmental Management Plan (CEMP)	The CEMP will include the following: - Appointment of a suitably qualified and experienced Environmental Clerk of Works (ECoW) and Hydrological Clerk of Works (HCoW) to oversee application of the CEMP; - a Site Water Management Plan;	Pre-construction/ Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	 an Outline Peat Management and Restoration Plan (PMP); a Materials Management Plan to include a Waste Policy/Management Plan; and a Habitat Management Plan (HMP). 		
Geotechnical risk register	Preparation of a geotechnical risk register (GRR) providing explicit mitigation measures tailored to each "Medium" or "Low" risk location will enable risks to be further minimised. The GRR will provide a series of measures detailing additional site investigation and assessment needs, indicating site specific features that may require active management during construction (e.g. pool complexes, drains), provide monitoring protocols to identify any early signs of reduced stability during construction works, and control measures to address unanticipated ground displacement. The GRR will include all the mitigation measures outlined to reduced peat slide risk in Appendix 10.2.	Pre-construction	Commitment remains unchanged
Peat Hydrology	Tracks: On slopes above tracks the cut off ditch should be positioned close to the track so that as much water as possible has the opportunity to infiltrate into the upgradient peat. Regular discharge of water from the track and from the upgradient diversion channel to the down gradient land is required. This process will allow the water to infiltrate a short distance from the track and can help counter potential down gradient dewatering effects; and Dressing the cut slopes alongside the tracks with low permeability material can potentially help reduce flow rates from more permeable sections as it will act as a barrier to groundwater flow.	Pre-construction/ Construction	Commitment remains unchanged
	Turbine Bases and Other Infrastructure: - Dewatering of the turbine bases may be required depending on the permeability of the surrounding geology, however evidence suggests this is low. This will be limited to as short duration as possible to keep the excavation dry until the	Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	 concrete is poured, cured and the void space backfilled. Any water from dewatering excavations should be discharged to peat areas surrounding the turbine base excavation during this period to promote recharge and reduce the impact of dewatering. This is a recognised method of mitigating the environmental impact of an abstraction (Forestry Commission, 2011). If there are no peat areas immediately surrounding the infrastructure but they are close by then the water should be discharged between the excavation and the peat to reduce the extent of drawdown in the other formations that may extend to the peat. Cut off ditches on upgradient slopes should also be close to the excavated areas as is practical to allow water to recharge the surrounding peat. Excavations should be left open for as short duration as practical to reduce the impact of dewatering on the surrounding peat. 			
	Peat Habitat and Deep Peat Avoidance: - Additional micro-siting of infrastructure following ground investigations will be undertaken in conjunction with the ECoW prior to construction for further avoidance as described in the Outline Peat Management and Restoration Plan (Appendix 10.3 of the EIAR). - Areas of disturbed peat will be reinstated as described in the Outline Peat Management and Restoration Plan (Appendix 10.3 of the EIAR).	Pre-construction/ Construction	Commitment remains unchanged	
Avoidance and Minimisation of Peat Disturbance	The appointed Principal Contractor (and / or Designer) will aim to minimise the volumes of excavated peat. As far as possible, appropriate handling and storage of excavated materials will be undertaken such that their integrity and subsequent reuse is not jeopardised.	Pre-construction/ Construction	Commitment remains unchanged	
	The ECoW will walk the site with engineers before construction commences, pointing out areas of sensitive habitat and identifying	Pre-construction/ Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	where impact can be reduced by minor movement of infrastructure		
	within the micro-siting available. These areas will be clearly marked		
	with post and tape. The ECoW will also ensure that any micro-siting		
	does not lead to movements into more sensitive habitats.		
	The principles of the waste hierarchy be adhered to in order to:		Commitment remains unchanged
	 avoid and/or minimise production of excavated peat; 		
	 reuse, where possible, excavated peat on site in landscaping 		
	and re-profiling works, to minimise visual impacts and	Pre-construction/	
	facilitate habitat, ecological and hydrogeological restoration,	Construction	
	improvement and enhancement; and		
	 avoid waste peat being sent for disposal, recovery and/or 		
	reuse off site.		
	All contractors will be made aware of the sensitivity of peat and		Commitment remains unchanged
	wetland habitats and the ECoW will clearly mark sensitive habitats	Pre-construction/	
	near to construction areas. Contractors will be required to work within	Construction	
	the narrowest practical construction corridor when working in or near	Construction	
	areas of peat.		
	All plans and method statements will be accompanied by justification		Commitment remains unchanged
	of the final design and/or construction methods identified by the		
	Principal Contractor, including reasons for discounting alternative	Pre-construction/	
	methods. This is required in order to demonstrate that all avenues for	Construction	
	avoiding hydrological disruption and reducing the disturbance and		
	excavation of peat have been considered.		
	The following methodologies for excavation of peat will be		Commitment remains unchanged
	undertaken:		
	- Areas of peat within the footprint of any excavation will have		
Handling	the top layer of vegetation stripped off as turf prior to		
Excavated	construction by an experienced specialist contractor. When	Pre-construction/	
Materials	excavating areas of peat, excavated turfs should be as intact	Construction	
iviateriais	as possible. Often it is easiest to achieve this by removing		
	large turfs up to 500mm in order to keep the peat intact.		
	- These turfs should be stored adjacent to the construction		
	area in a way that ensures they remain moist and viable (see		

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	temporary storage below). Excavated turfs should be as intact as possible so as to minimise carbon losses. Peat will then be removed, stored separately and kept damp (Carbon and Water Guidelines 2012). The moisture content of stored/stockpiled peat will be monitored monthly and if it falls below 25% of that in surrounding, intact peat then it will be watered. Excavated soils and turfs will be handled so as to avoid cross contamination between distinct horizons and ensure reuse potential is maximised. Prior to any excavations, the Contractor will produce a detailed Method Statement identifying where and how excavated peat will be used in reinstatement or landscaping works. Specific requirements for the excavation, handling, storage and reinstatement of peat will be outlined in this Method Statement. The Contractor will consider potential impacts on downstream hydrological receptors and also the potential for instability issues with the excavated material. Care will be taken when stripping and removing topsoil and peat turfs and appropriate storage methods used on site, i.e. excavated material will be stored in separate horizons and vegetation rich top layers will be stored vegetation side up. Classification of excavated materials will depend on their identified re-use in reinstatement works. At this site it is anticipated that the material to be excavated will comprise peat (which may be sub-divided into turf, acrotelm and catotelm/amorphous), peaty soils and mineral soils (subsoil and topsoil).			
	Following excavation, peat will be required to be temporarily stored before reuse or disposal, although peat restoration will commence in locations as soon as feasible e.g. in borrow pits as they are completed. Excavated peat should be stored in stockpiles to minimise carbon	Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	losses while being stored.		
	Where possible excavated turfs will be stored adjacent to the construction area such that they remain moist and viable.	Construction	Commitment remains unchanged
	Areas for temporary storage required for peat will be identified in the Principal Contractors Method Statement taking into account constraints and mitigation requirements identified in the environmental information. This will describe any intended drainage, pollution prevention and material stability mitigation measures that may be required. The following general guidelines will apply: - The appropriate temporary storage areas for excavated peat will also be as close to the excavation as practicable. - The design and location of stockpiles, including incorporated drainage elements, will be agreed with the ECOW and Geotechnical Consultant / Geotechnical Clerk of Works prior to excavation works commencing. - Temporary peat storage areas should be located so that erosion and run off is limited, leachate from the material is controlled, and stability of the existing peatland in the vicinity is not affected. - Excavated material is to be stockpiled at least 50m away from watercourses. This will ensure that any wetting required on stored peat does not runoff and discharge into adjacent watercourses. - Any edges of cut peat that may remain exposed, or areas of peat excavation on steep slopes, will be covered with geotextile or similar approved. This will allow re-turfing and re-vegetation and reduce erosion risks. - Suitable storage areas are more appropriately sited in areas with lower ecological value and low slopes. - Temporary peat storage should be in locations where the water table can be kept artificially high. - An up-gradient cut off ditch should be installed around the	Pre-construction/ Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	edge of the storage bund in order to collect up-gradient surface water runoff and divert water runoff from eroding the toe of the bund. - It is desirable to keep haul distances of excavated peat as short as possible and as close to intended re-use destinations to minimise plant movements in relation to any earthworks activity including peat management in order to minimise the potential impact on the peat structure. It is important that temporary storage is safe and keeps the material suitable for its planned reuse. - The handling and storage of peat will seek to ensure that excavated peat does not lose either its structure or moisture content. Peat turves require careful storage and wetting and to be maintained to prevent drying out and subsequent oxidisation to ensure that they remain fit for re-use. - Stockpiling of peat should be in large volumes, taking due regard to potential loading effects. Piles should be bladed off at the side to minimise the available drying surface area.	Timing	New Environmental Commitment	Timing
	 Higher piles are more likely to become dewatered, while smaller piles expose a greater area to evaporation. Reducing mound size may also increase likelihood of erosional losses as particulate organic carbon (POC). Overall volumes of stockpiling should be minimised and height and surface areas kept to a minimum – for example, a maximum of 1m high and against rock faces in borrow pits where possible. Stockpiles should be battered so as to limit instability and erosion and should be bunded or covered using impermeable material. The bunds should extend to a level above the toe of the stockpiled material to provide restraint to surface runoff. When planning the temporary storage areas any additional disturbance areas should be minimised. Transport of peat to temporary storage areas, restoration areas or designated spoil areas will be by low ground 			

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	pressure vehicles to avoid excessive compaction of the peat.		
	The Principal Contractor will be required to provide appropriate plant for undertaking all reinstatement works such that no unnecessary disturbance of the ground surface occurs. In order to minimise disturbance and damage to the ground surface, any mobile plant required for reinstatement and landscaping works will be positioned on constructed access tracks, hard standing areas or existing disturbed areas wherever possible. The use of a long reach excavator for excavations and reinstatement works is preferable as it enables sufficient room to allow initial side casting and subsequent pulling back of turves over reinstated peat or soil.	Pre-construction/ Construction	Commitment remains unchanged
	Immediately following construction some turfs will be replaced along the road edges to allow quicker re-vegetation and to soften the road edges	Construction	Commitment remains unchanged
Doot Do was	When constructing cut tracks rapid restoration will be undertaken as track construction progresses	Construction	Commitment remains unchanged
Peat Re-use	Peat turfs should be replaced on all disturbed areas, including constructed roadside drainage channel embankments where possible.	Construction	Commitment remains unchanged
	Any reinstatement and re-profiling proposals will consider, and mitigate against, identified significant risks to environmental receptors. In particular, in areas of replaced peat, water management will be considered in the Contractor's Construction Method Statements to ensure that as far as possible an appropriate hydrological regime is re-established within areas of disturbance. Particular attention will be paid to maintaining hydrological continuity and preventing the creation of preferential subsurface flow paths (for instance within backfilled cable trenches).	Pre-construction/ Construction	Commitment remains unchanged
	Appropriate drainage will be required where peat is used in reinstatement, for instance track verges and reinstatement of construction compounds, etc so that the peat will be maintained in a saturated condition.	Pre-construction/ Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	Reinstatement of vegetation will be focused on natural regeneration utilising peat vegetated turfs. To encourage stabilisation and early establishment of vegetation cover, where available, peat turfs (acrotelmic material) or other topsoil and vegetation turves in keeping with the surrounding vegetation type will be used to provide a dressing for the final surface.	Construction	Commitment remains unchanged
	Excavated catotelm or amorphous peat will only be used in restoration works where the topography allows straight forward deposition with no pre-treatment or containment measures and without risk to the environment. Suitable scenarios may be present in those disturbed areas where natural topography profile allows such use. A fibrous layer of acrotelm and turf will be placed above any catotelm or amorphous peat reinstated.	Construction	Commitment remains unchanged
	Any landscaping of road batters should be limited to the areas of ground already disturbed (including floating tracks).	Construction	Commitment remains unchanged
	The re-vegetation of temporary hardstanding areas will depend on the identified reinstatement use and associated vegetation character bounding the areas of restoration, with the aim being to match turves and topsoil to similar ground conditions. Where appropriate, excess peat turves, if acrotelm in nature and considered suitable by the ECoW, could be used for screening bunds, landscaping or as part of an HMP in conjunction with reseeding. The seed mix used on site would be agreed with the ECoW and SNH and would use local native species akin to the local ecological baseline.	Construction	Commitment remains unchanged
	The design and construction of tracks on peat shall be done in such a way so as to reduce impacts on the existing peat hydrology at the site. The built track should allow for the transmittance of water, so natural drainage can be maintained as far as possible.	Pre-construction/ Construction	Commitment remains unchanged
	Track edges and passing places would be reinstated post construction through the removal of capping material and the reuse of peat turves. Where peat turves are used to reinstate track edges this will be done in a manner to ensure works tie in with the surrounding topography, landscape and ground conditions.	Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	During the tendering process for the works, environmental specifications and objectives will be included in the tender documents so that all contractors can allow for mitigation measures in their tender costs. Sub-contractors are required to implement Energy Isles Environmental Management Procedures.	Pre-construction	Commitment remains unchanged
	During the induction of contractors, a specific session on good practice to control water pollution from construction activities would be included. The responsibility for protecting the water environment would be shared with all staff on the site with an appropriate level of support from construction managers to achieve this. The site induction process would be based on the Pollution Prevention Guidance and best practice documents indicated within the hydrology chapter (Chapter 10 of the EIAR).	Pre-construction/ Construction	Commitment remains unchanged
Water Environment	 Construction Method Statement (CMS) The Tender procedures for construction contracts will include the requirement to produce a CMS, in consultation with SEPA, SIC and Scottish Water. Following the more detailed design of tracks and drainage, the CMS will define the construction planning and procedures to be applied. The CMS will demonstrate, to the satisfaction of SEPA, how construction will be in accordance with PPG5, PPG6 and the Forests and Water Guidelines 2011. This document will be produced to function alongside the CEMP. In all construction designs SUDS (Sustainable Urban Drainage Systems) shall be incorporated to minimise hydrological effects of the development and to maintain the current hydrological systems. 	Pre-construction/ Construction	Commitment remains unchanged
	Watercourse Crossings - The main watercourses are shown to be at risk of flooding however the flood risk zones are close to the main channels as a result of the steep valleys. The crossings should be designed so that their presence does not increase flood risk down gradient by having adequate capacity and by avoiding	Pre-construction/ Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	any structure within the channel or flood zone. The crossings of main watercourses will also allow for appropriate fish, eel and otter passage. - Watercourse crossings will be the subject of detailed design within a Construction Method Statement (CMS) to be submitted to SEPA and the local authority (as appropriate) prior to commencement of construction. A monitoring programme for maintenance of crossings (to prevent blockages and flooding) will be provided within the CMS and is anticipated to be a condition of planning. - Where it is necessary to cross watercourses or flowing drains, appropriately designed crossings and culverts will be installed, and licensed where appropriate, in consultation with SEPA (see Mitigation below). All tracks that will be excavated will have the material removed and replaced in the same manner, particularly the peat and the topsoil layer in accordance with the approved peat management plan. All dewatering activities will be managed through dewatering permits and method statements and the ECOW must be consulted and agree pumping and associated mitigation measures prior to commencement of works.	Construction Pre-construction/ Construction	Commitment remains unchanged Commitment remains unchanged	
	Suitable mitigation measures will be installed to minimise the volume of silt contained within pumped waters and to avoid or minimise the impact of the pumped water discharge on the water environment, including: - Installation of upgradient cut off drains to reduce the volume of water entering excavations. - In order to prevent disturbance from the base of excavations or from the bed of watercourses during abstraction, any pump intakes will be protected from sediment by raising the intake using a floating rose and a geotextile filter. - The discharge of abstracted water through sediment control structures and over natural vegetation to filter and infiltrate.	Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
Management of Sediment	Loose track material generated during the use of access tracks will be prevented from reaching watercourses by adequate maintenance of the track, utilising measures deemed necessary by the ECoW. In dry weather, dust suppression methods will be employed.	Construction	Commitment remains unchanged
	Standard erosion control techniques and sediment control structures are used across the site during the construction period.	Construction	Commitment remains unchanged
	Drainage will be installed on either side of tracks where required to enable appropriate management, capture and discharge of clean, and potentially sediment laden runoff. Regular discharge of upgradient water to down gradient vegetation will be installed and appropriate sediment control structures to manage contact water.	Construction	Commitment remains unchanged
	Roadside drains likely to carry high sediment loads will not be allowed to discharge directly into watercourses but will discharge into sediment control structures or buffer areas of adequate width. The purpose of these drainage ditches is to collect track drainage, control run-off during intense rainfall events and mitigate erosion. These ditches will have filter check dams at intervals along their length to encourage infiltration and reduce velocity of flow within the channels. The drainage design will encourage run-off to leave access tracks quickly and prevent their acting as flow pathways and will also protect the site's soils from erosion. Sediment control structures will be located at the end of all cross drains and cut off drains.	Construction	Commitment remains unchanged
	Watercourse crossings will be sized sufficiently to avoid overloading, blocking or washout, and will be protected and well bedded to avoid settlement.	Pre-construction	Commitment remains unchanged
	Minor ephemeral watercourses and drains will be twin wall UPVC or precast concrete pipe culverts or half-moon culverts where reasonably practicable to retain the natural stream bed.	Construction	Commitment remains unchanged
	Turbine bases are to be located at least 50m away from any watercourse mapped on the 1:50,000 scale Ordnance Survey mapping and confirmed to be present during site visits where reasonably practicable.	Pre-construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	Soil movement will be undertaken with reference to best practice guidelines Good Practice Guide for Handling Soils (MAFF 2000). Subsoil from the foundation excavations would be primarily replaced around the foundations following pour and curing. Any remaining spoil would be used to fill borrow pits or spread in areas that are not environmentally sensitive as agreed by landowners and relevant consultees. Topsoil and turfs will be stored so as to maintain their vitality and used to recover the foundation. This will help to maintain surface hydrological characteristics in terms of near surface infiltration and run-off regimes.	Construction	Commitment remains unchanged	
	The installation of the electrical cables will be within small trenches. Where trenches are dug on steep slopes they will be dug in sections or plugs of soil may be left in place at intervals to prevent them acting as preferential drainage pathways and increasing soil erosion. As indicated above, best practice cable installation means that the trenches will not remain open for long periods of time and will be restored by replacing the subsoil and topsoil removed earlier.	Construction	Commitment remains unchanged	
	Run-off and discharge water from the excavation sites will be discharged into sumps where sediment would be allowed to settle, and the drainage waters would be pumped out and discharged via vegetated soakaways to a vegetated area or infiltration trench down gradient of the excavation site. The exact method of site discharge will be confirmed with the SEPA prior to the commencement of construction. These measures are also designed to reduce soil erosion by controlling discharges from the excavations.	Construction	Commitment remains unchanged	
	In the event of shuttering collapse during a concrete pour it is unlikely that material will escape as the excavation required to erect the shuttering will be below ground and of a larger volume than the shuttering capacity. However, in this unlikely event, actions as defined below would be put in place. When the concrete had solidified, it would be dug out and disposed of appropriately.	Construction	Commitment remains unchanged	_
	Careful consideration will be given to the location of topsoil and subsoil storage areas for all facilities during construction, either by	Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	siting in a flat dry area away from watercourses or by the addition of cut-off drains above the storage, which will help to maintain a buffer from streams. The areas will be regularly inspected to ensure that erosion of the material is not taking place.		
	Settlement lagoons and silt traps will be inspected regularly especially after periods of heavy rainfall. This inspection period will be agreed with SEPA during the development of the CMS. Maintenance will be carried out in periods of dry weather where practicable.	Construction	Commitment remains unchanged
Oil, Fuel and Chemical Contamination	The construction compound will have provision for the storage of fuel, oil and chemicals in designated areas, together with areas for vehicle compounds, refuelling sites, waste depots and on-site sewage systems.	Construction	Commitment remains unchanged
	 Mitigation is to be demonstrated in accordance with PPG1, GPP2, GPP4, PPG6, GPP8 and PPG26. Good practice will be adopted for handling potentially polluting substances (such as fuel, oil, cement and concrete additives) including: Designated facilities designed and used for storage and refuelling, located away from watercourses. Fuel, oils and chemicals will be stored on an impervious base within a bund able to contain at least 110% of the volume stored. Rainwater will not be allowed to accumulate within the bund and in any way compromise the required 110% volume capacity. Interceptor drip trays will be positioned under any stationary mobile plant to prevent oil contamination of the ground surface or water. A site oil, chemical and product inventory. A site drainage plan, including notations of areas of highest sensitivity. A list of emergency procedures, responsive to a risk assessment of areas of high sensitivity. Site induction of all personnel on emergency spillage procedures and staff trained in emergency procedures. 	Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
	 A contact list for emergency services, the relevant environmental regulators, the local water supply and sewerage undertakers, the Health and Safety Executive and specialist clean up contractors, if required. Emergency response equipment will be available at appropriate locations. 		
	In the event of an accidental spillage, a predefined 'Procedure in the event of a contaminant spillage' will become effective.	Construction	Commitment remains unchanged
	Concrete foundations will adhere to a specific code of practice for concrete design to ensure that the concrete mix is designed to withstand concrete attack. Concrete for the turbine bases will be batched on site.	Construction	Commitment remains unchanged
	On site engine and hydraulic oil waste will be stored in an appropriately constructed compound and storage bund.	Construction	Commitment remains unchanged
	Waste oils will be stored in the construction compounds in an above ground tank within a concrete bunded area to prevent oil escaping to the environment in the event of leakage from the main tank. The bund will be 110% of the storage tank capacity. The bund will be emptied by a specialist company. Procedure for storage, removal and accidental spillage will be defined in the 'Pollution Incident Response Plan' with spill kits available adjacent to the bunded area.	Construction	Commitment remains unchanged
	 The following additional measures will also be implemented to manage oil waste: Drip trays will be provided for machinery. Machinery will be repaired and maintained, where practicable, in suitable designated locations. Facilities will be provided to ensure appropriate waste management. Wheel washing facilities where required will be located away from watercourses. Should dewatering be required pumped water will be discharged via settlement ponds or filter strips prior to direct discharge into a watercourse. 	Construction	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing
Monitoring	Prior to commencement of any invasive investigations or site works, a strategic set of water sampling locations will be identified. The locations will be considered within the choice of sampling locations as well as any upgradient works on other developments. Any samples taken will be analysed for a suite of typical determinants used by SEPA for their water quality assessments in freshwater rivers and updated to include any requirements arising from the Water Framework Directive or Scottish Water requirements	Pre-construction	Commitment remains unchanged
	Water samples during construction will be collected from the same locations as during baseline sampling and taken at intervals agreed with SEPA. Sampling locations will include some control points outside the influence of the construction. These will be analysed for a suite of typical determinant used by SEPA and Scottish Water in order to ensure that there is no negative effect on surface water quality during the construction phase.	Construction	Commitment remains unchanged
	Temporary drainage features, access track drainage channels, drainage crossings on tracks, silt traps, sediment lagoons etc. will be inspected on a regular basis to ensure they are clear and capable of performing their functions.	Construction	Commitment remains unchanged
	Periodic inspection of the river beds and banks will be undertaken during the operational phase of the works and culverts will be modified if required (for example by installing baffles within the culverts to reduce flow rates exiting the culvert). Streams and drains will be inspected to ensure they are operating correctly and they will be cleaned of silt or vegetation if required.	Operation	Commitment remains unchanged
	In the decommissioning phase, monitoring will be undertaken to the same level and frequency as for the construction phase as activities and risks to receptors are similar.	Decommissioning	Commitment remains unchanged
	Energy Isles Wind Farm Proposed Protection for Gossa Water Catchment (Appendix 10.6) will be implemented.	Pre-construction/ Construction/ Operation	Commitment remains unchanged

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing			
11. Traffic and Tra	11. Traffic and Transport					
General Construction Traffic	During construction the project website will regularly be updated to provide the latest information relating to traffic movements associated with vehicles accessing the site and will be agreed with SIC.	Construction	Commitment remains unchanged			
	The widening of the Old Cullivoe Road will be subject to detailed discussions with SIC, detailed design and the granting of technical approval through the appropriate road works licensing process.	Construction	Commitment remains unchanged			
	Core Path CPPY04 access will be maintained throughout. Conflict between construction traffic and non-motorised users will be minimised through appropriate traffic management and segregation if necessary. Should closures be required, their duration will be minimised. This will be managed through implementation of a CTMP and Traffic Management Plan (TMP) (which may form part of the CTMP).	Construction	Commitment remains unchanged			
	Access to National Cycle Route 1 which follows parts of the A968 would be maintained. Conflict between construction traffic and cyclists would be prevented through appropriate traffic management and segregation (if necessary). This would be managed through implementation of a CTMP and TMP (which may form part of the CTMP).	Construction	Commitment remains unchanged			
	A pre-construction survey of the abnormal loads access route and the construction vehicles route would be recorded to provide a baseline of the state of the road prior to any construction work commencing. This baseline would allow identification of any change in the road condition during the construction stage of the Proposed Development. Any necessary repairs would be coordinated with the Roads Authority. Any damage caused by traffic associated with the Proposed Development during the construction period that would be hazardous to public traffic would be repaired immediately.	Construction	Commitment remains unchanged			
	Damage to road infrastructure caused directly by construction traffic would be made good and street furniture that is removed on a	Construction	Commitment remains unchanged			

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	temporary basis would be fully reinstated.			
	A daily road edge review and any debris and mud will be removed from the carriageway using an onsite road sweeper.	Construction	Commitment remains unchanged	
Construction Traffic Management Plan (CTMP)	A CTMP will implement the following measures during construction: - All materials delivery lorries (dry materials) should be sheeted to reduce dust and stop spillage on public roads; - Specific training and disciplinary measures should be established to ensure the highest standards are maintained to prevent construction vehicles from carrying mud and debris onto the carriageway; - Wheel wash facilities would be established at an appropriate location prior to vehicles exiting onto the A968; - Normal site working hours would be limited to between 0700 and 1900 Monday to Friday and 0800 - 1800 Saturday & Sunday, though component delivery and turbine erection may take place outside these hours; - Appropriate traffic management measures would be put in place on the A968 and Old Cullivoe Road to avoid conflict with general traffic, subject to the agreement of the roads authority. Typical measures would include HGV turning and crossing signs and/ or banksmen at the A968/Old Cullivoe Road junction and site accesses and warning signs; - Provision of construction updates on the project website and a newsletter to be distributed to residents within an agreed distance of the site on Yell; - Adoption of a voluntary speed limit of 30mph for all construction vehicles on Old Cullivoe Road; - Out of hours chartering of the ferry to reduce conflicts with other users; - All drivers would be required to attend an induction to include: - a safety briefing;	Construction	Commitment remains unchanged with the exception of normal working hours which will be between 07:00 and 19:00 Monday – Friday, and 08:00 – 18:00 Saturday, with no work undertaken on Sundays or public holidays. Although component delivery and turbine erection may take place outside these hours.	Construction

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment	Timing
	 the need for appropriate care and speed control; a briefing on driver speed reduction agreements (to slow site traffic at sensitive locations); identification of specific sensitive areas; identification of the specified route; and the requirement not to deviate from the specified route. 			
Abnormal Indivisible Loads (AIL)	The required road improvements would be carried out in agreement with SIC to ensure that during delivery of turbine components minimal damage is caused to road surfaces, verges, street furniture and surrounding vegetation. These will be implemented subject to detailed discussions with SIC, detailed design and the granting of technical approval through the appropriate road works licensing process.	Construction	Commitment remains unchanged	
	A TMP for the delivery of abnormal loads would be developed to reduce conflicts between abnormal load traffic and other road users.	Pre-construction	Commitment remains unchanged	
	Before the AILs traverse the route, the following tasks would be undertaken to ensure load and road user safety: - a review of clear heights with utility providers and the transport agencies along the route. The Applicant would ensure, in consultation with providers that there is sufficient clearance with an appropriate safety factor, especially with respect to power lines; - ensuring any vegetation which may foul the loads is trimmed back to allow passage; - confirming that there are no roadworks or closures that could affect the passage of the loads; - checking that no new or diverted underground services on the proposed route are at risk from the abnormal loads; - confirming that the police are satisfied with the proposed movement strategy; - the Applicant would contact the appropriate agencies to ensure that the above points are reviewed before the	Construction	Commitment remains unchanged	

Environmental Subject Area	Previous Environmental Commitment	Timing	New Environmental Commitment Timing	
	transport of components commences; and - confirm that all transport permits are in place.			
12. Socio-Economic	c, Tourism and Recreation			
Access to core path	An Access Route Plan will be produced and if required, will include a map detailing any diversions and any management of access during and after construction. This may be addressed through an appropriately worded condition.	Pre-construction	Commitment remains unchanged	
13. Aviation and Ra	dar			
Radar mitigation scheme	Probable establishment of a Non-Auto-Initiation Zone (NAIZ) within the radar data processing system. This will be agreed with the MOD and may be addressed through a suitably worded condition.	Operation	Commitment remains unchanged	
Aviation Lighting	Tall cranes during construction will require aviation lighting, and the Defence Geographic Centre will be informed prior to their operation on site.	Construction	Commitment remains unchanged	
	Medium intensity steady red lights (2000 candela) will be fixed to the top of the nacelle. At least 3 low intensity (32 candela) lights will be provided at an intermediate level of half the nacelle height.	Operation	Commitment remains unchanged	
14. Shadow Flicker				
Wind Farm Shadow Flicker Protocol	Prior to the erection of the first turbine a written scheme (known as the 'Wind Farm Shadow Flicker Protocol') shall be submitted to and approved in writing by SIC. This will set out mitigation measures to alleviate shadow flicker attributable to the Proposed Development as well as protocol for addressing a complaint received from a receptor within the study area.	Pre-construction only	No effects are anticipated to occur during construction operation or decommissioning of the Proposed Development, therefore no mitigation measures were deemed necessary.	
15. Telecommunication				
No effects were anticipated to occur during construction, operation or decommissioning of the Proposed Development, therefore no mitigation measures were deemed necessary.			Assessment outcome remains unchanged therefore no mitigation measures are proposed.	