

# EIA Report Chapter 13: Summary of Mitigation

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**Client:** Constantine Wind Energy (UK) Ltd

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**Report Prepared for:**

Constantine Wind Energy (UK) Ltd

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# 13 Summary of Mitigation

This chapter provides a summary of the proposed mitigation presented within the Environmental Impact Assessment Report (EIA Report). **Table 13.1** outlines the mitigation measures and commitments for the Proposed Development and at which phase of the project these would apply. For more details, please refer to the corresponding chapter.

**Table 13.1 - Schedule of Mitigation**

Phase	Reason	Project Area/Infrastructure	Proposed Mitigation Measure	Embedded Mitigation	Additional Mitigation
<b>Chapter 7: Hydrology</b>					
Design	Avoidance of sensitive areas.	Throughout the Site	Adhering to appropriate separation distances from watercourses as much as possible and avoiding the sensitive habitats on site. Avoidance of areas of deeper peat.	Yes	No
Design	Water Quality and Soils Management	Access tracks and hardstandings.	Clean water cut-off ditches are proposed for the access track and hardstandings at all turbines. Ditches will be located on the 'high-side' of the relevant infrastructure and will be installed immediately ahead of construction. Stone check dams will be employed to slow water flow along the ditches.	Yes	No
Design	To minimise ponding and prevent the track becoming a conduit for runoff	Access tracks	All tracks will be constructed with a camber sufficient to minimise ponding and prevent the track becoming a conduit for runoff. The track will be constructed using a relatively large aggregate size, enabling runoff to percolate through the track. A large aggregate size also minimises the amount of fine sediment in the construction material.	Yes	No
Design	Infiltration trenches to collect runoff	Access tracks and hardstandings.	V-Ditches with check dams will also be installed alongside the hardstanding and access tracks to collect any runoff. The check dams will be constructed from clean, granular materials or straw bales. This will help sediments and pollutants will be filtered from the water and will also slow water flow along the ditches.	Yes	No

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Construction	Water Quality	Throughout the Site.	Prior to excavations, an end-use will be identified for the excavated material and an appropriate storage solution determined accordingly. Stored materials will be kept away from surface water bodies to minimise the possibility for sediments entering the aquatic environment.	Yes	No
Construction	Habitat restoration and minimise visual impact	Throughout the Site.	Early reinstatement of excavated materials is required to minimise visual impact, to reduce time required for temporary storage/stockpiling of soils, and to encourage vegetation and habitat restoration as early as possible.	Yes	No
Construction	Water Quality and Soil Management	Throughout the Site.	Dewatering shall be avoided where possible to minimise impacts on sensitive habitat. However, formation of the turbine foundations would likely involve dewatering to temporarily lower the water table and enable work in the excavated areas. Gravity foundations are proposed, which will limit depths of excavations and associated impacts.	Yes	Yes
Construction	Water Quality and Soil Management	Throughout the Site .	Enhanced sedimentation control to avoid potential impacts on sensitive habitats, any potential runoff will be appropriately treated prior to discharge into the natural environment.	Yes	No
Construction	Pollution control	Throughout the Study Area.	Routine maintenance for the roads will be carried out in summer months when the tracks are dry. Concrete will be premixed offsite and a high grade will be used to minimise leaching. Best practice procedures in the handling, use and storage of fuel, oils, and chemicals will be adhered to at all times.	No	Yes
Restoration	Restoration of Site.	Throughout the Study Area.	Early reinstatement of excavated materials is required to minimise visual impact, to reduce time required for temporary storage/stockpiling of soils, and to encourage vegetation and habitat restoration as early as possible. Certain biodiversity enhancement measures are proposed. The aim of these restoration measures will be to reduce the area of bare peat soil present within the Site by re-profiling of	Yes	Yes

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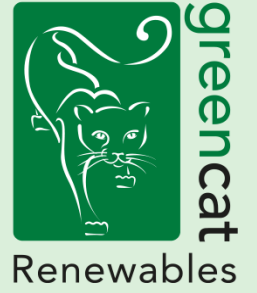
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			exposed peat hags along existing drains and revegetating the exposed peat surface		
<b>Chapter 8: Ecology</b>					
Design	Avoidance of Sensitive habitats	Throughout the Site.	Ecological features have been considered at all stages of the Proposed Development design, from initial feasibility to final layout. This has helped to avoid or greatly reduce impacts on IEFs and other ecological features.	Yes	No
Construction	Reduce ecological potential impacts	Throughout the Site.	A suitably qualified and experienced Ecological Clerk of Works (ECOW) will be appointed to provide ecological and environmental advice during construction, including the monitoring of compliance with the recommendations of this EIA Report and subsequent planning conditions.	Yes	No
Construction	Safeguarding of protected species	Throughout the Site.	Pre-construction surveys for protected species, such as otter, pine marten, water vole, red squirrel and reptiles (e.g. common lizard) will be undertaken to provide up-to-date information about the distribution and abundance of the protected species. The results of the surveys will inform the need for and scope of Species Protection Plans and associated mitigation and licencing requirements, all of which will be developed in line with NatureScot guidance.	No	Yes
Construction	Protection of Ground Water Terrestrials Ecosystems (GWDTEs)	Throughout the Site.	Good practice design and construction and measures that will be outlined in the Construction Environmental Management Plan (CEMP) will minimise potential indirect effects of the Proposed Development on any GWDTEs during construction phase. The CEMP will be provided prior to constructional work commencing.	Yes	No
Construction	Protection of aquatic habitats	Throughout the Site.	Mitigation presented within <b>Chapter 7 - Hydrology</b> of this EIA Report to safeguard the water environment, will effectively mitigate construction-related impacts to any aquatic species, such as the direct and indirect effect of pollution and sedimentation from instream works and surface water run-off. Water quality monitoring is recommended to ensure the	Yes	No

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			safeguarding of the water environment and important aquatic features (see <b>Chapter 7 - Hydrology</b> ).		
Operation	Reduced ecological potential impacts	Throughout the Site.	To minimise the risk of bats colliding with operational turbines, Natural England good practice guidance recommends a minimum 50m stand-off distance between blade tips and high value bat habitat.	Yes	No
Construction and Operation	Enhancement of biodiversity	Throughout the Site.	The Applicant has committed to the provision of a Habitat Management and Monitoring Plan (HMMP) to reduce adverse environmental effects and to provide significant enhancements for important ecological features and biodiversity enhancement at the Proposed Development, and as a requirement in line with Policy 3 of National Planning Framework 4.	Yes	No
<b>Chapter 9: Ornithology</b>					
Construction	Minimise effects on habitat	Throughout the Site.	Suitably qualified ECoW will be appointed.	Yes	No
<b>Chapter 10: Telecommunications</b>					
Delivery	Avoid damage to overhead line	Abnormal loads delivery	Commitment to following HSE Guidance Note GS6 <i>“Avoiding danger from overhead power lines”</i>	Yes	No
Construction	Avoid damage to underground fibre optic cable	Groundworks	Commitment to following HSE Guidance HS((G)47 <i>“Avoiding Danger From the Underground Services”</i>	Yes	No
<b>Chapter 11: Traffic and Transport</b>					
Delivery	Traffic	Roads	CTMP	Yes	No
<b>Chapter 12: Other Issues</b>					
Operational	Interference with Low Fly Zone	Operational Turbines	Turbines will be fitted with MOD-approved 25cd infra-red lighting.	Yes	No



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