



Harmancık Wind Power Plant (WPP) Project

Biodiversity Management Plan for Operation Phase

May 2025

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Biodiversity Management Plan for Operation Phase

May 2025

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Definitions and Abbreviations

Abbreviation	Definition		
Aol	Area of Influence		
BAP	Biodiversity Action Plan		
BMP	Biodiversity Management Plan		
СН	Critical Habitat		
CHA	Critical Habitat Assessment		
CITES	Convention for the International Trade in Endangered Species of Wild Fauna and Flora		
DKMP	General Directorate of Nature Conservation and National Parks		
EBRD	European Bank for Reconstruction and Development		
EIA	Environmental Impact Assessment		
ESIA	Environmental and Social Impact Assessment		
ETL	Electric Transmission Line		
EUNIS	European Nature Information System		
GN	Guidance Notes		
IAS	Invasive Alien Species		
IFC	International Finance Cooperation		
IUCN	International Union for Conservation of Nature		
KBA	Key Biodiversity Area		
NGO	Non-Governmental Organization		
PBF	Priority Biodiversity Features		
PR	Performance Requirement		
PS	Performance Standard		
Ramsar	Convention on Wetlands of International Importance Especially as Waterfowl Habitat		
TEIAS	Turkish Electricity Transmission Corporation		
VP	Vantage Point		
WPP	Wind Power Plant		

1 Introduction

1.1 Project Background

Enerjisa Üretim Santralleri Anonim Şirketi has been awarded with the competition took place on 30 May 2019 under the "Competition Announcement for the Allocation of Wind Energy Based Renewable Energy Resource Areas (YEKA) and Total Connection Capacities"¹ for Çanakkale Connection Region. Upon this award, a "YEKA Use Rights Agreement" was signed between Enerjisa Üretim Santralleri Anonim Şirketi and Ministry of Energy and Natural Resources (MoENR) on 09 March 2020. Subsequently, the "YEKA Use Rights Agreement" signed by Enerjisa Üretim Santralleri Anonim Şirketi for the Çanakkale Connection Region was transferred to Enerjisa Enerji Üretim Anonim Şirketi ("Enerjisa Üretim" or "the Project Company") with the transfer agreements signed on 03 June 2021.

Harmancık Wind Power Plant (WPP) Project ("the Project") with 10 turbines and 42 MW_m/42 MW_e total installed power, is planned to be established by Enerjisa Üretim in Çanakkale Province, Merkez and Lapseki Districts, Yukarıokçular, Kızılkeçili, Üçpınar and Hacıgelen Neighbourhoods. The Project components consist of 10 turbines, a switchyard, Project roads (i.e., access and site roads), a 68.75 tonnes/hour capacity mobile crashing and screening facility², to be used as necessary, as well as an energy transmission line (ETL) as a Project associate facility (please refer to Section 2.3: Project Components for details).

The Enerjisa Yeka Nine Wind Power Plants (WPPs) projects have undergone Environmental and Social Impact Assessment (ESIA, Supplementary Baseline (2024), and Critical Habitat Assessment (CHA) studies, conducted by Mott MacDonald (hereafter Consultant). At the CHA stage, habitat types were determined, classified and those that were critical habitats were listed. In addition, species/taxa that may be a priority biodiversity features in these areas were determined and their IUCN protection status was specified. Additionally, Key Biodiversity Areas and trigger species were taken into consideration.

This document is updated to reflect the final results of the 2024 supplementary baseline studies. Quantitative assessments of no net loss and net gain requirements have been completed, and corresponding actions will be defined in the Project Biodiversity Action Plan (BAP) and Offset Plan. Specific measures for achieving net gain in critical habitats will also be detailed in the BAP by Enerjisa Üretim.

1.2 Purpose of the Study

This BMP aims to ensure an adequate management and control of the activities that may pose biodiversity-related risks associated with the operation phase of the Project. This plan outlines potential impacts and describes how these should be avoided, mitigated, managed, and monitored. The purpose of this document is as follows:

- Identify measures to manage and minimize potential impacts on biodiversity with special focus on critical habitats and species through the implementation of the mitigation hierarchy.
- Define monitoring activities necessary to improve the understanding of potential impacts and to monitor the success of proposed mitigation measures.

¹ Published in the Official Gazette Date/No: 07.11.2018/30588

² 68.75 tonnes/hour capacity mobile crashing and screening facility is included in the National Environmental Impact Assessment (EIA) Study.

Provide the framework to achieve IFC PS6 goals: no net loss of biodiversity, in the case
of Natural Habitats; The BMP is intended to be a 'live' document and therefore it should
be periodically updated. This is especially relevant during the design and construction
phases when the BMP shall be updated taking into account (1) the findings provided by
monitoring activities implemented on the ground as well as (2) potential changes in the
Project design or management procedures.

This study aims to assess the habitats loss by the Project considering the baseline conditions and to quantitatively determine the net loss and, if applicable, the net gain based on these findings. For this purpose, the evaluation considered project habitats loss, the presence of Key Biodiversity Areas (KBAs), and habitats potentially significant for species that trigger critical habitat status, applying the DEFRA framework. Given that biodiversity assessments for demonstrate no net loss/net gain calculations often involve numerous region-specific variables, it is not feasible to directly implement DEFRA's methodology or similar models without adaptation. Consequently, a high-level No Net Loss/Net Gain assessment approach has been developed for nine wind power projects, utilizing DEFRA's calculation principles as detailed explain in Methodology Section 7.1.

It is also important to note that there is currently no nationally recognized or implemented net loss/net gain policy in Türkiye. However, in forested areas under the jurisdiction of the General Directorate of Forestry, it is mandatory to replant a number of trees equal to those removed and to covering the associated financial costs of such reforestation efforts. The afforestation works to be carried out for the project were also evaluated within the scope of the necessary offset effort.

The 2024 supplementary baseline studies are completed, and the necessary revisions are incorporated into this document. Quantitative details regarding no net loss and net gain requirements, along with related mitigation measures for critical habitats, will be presented in the Biodiversity Action Plan (BAP) to be prepared by Enerjisa Üretim.

The BMP provides the following:

- Summary of the previous studies related biodiversity features and habitats (this section provides applicable legislation and guidelines)
- Summary of the Project impacts
- The mitigation measures applicable to the Project
- Requirements for monitoring and performance measurement of biodiversity management
- Project No Net Loss/Net Gain Approach
- Roles and Responsibilities
- Training requirements
- Reporting

1.3 Legislation and Guidelines

1.3.1 National Requirements

The primary framework of the Turkish legislation for environmental legislation is the Environmental Law (Law No: 2872). National laws and regulations regarding protection of the habitats and species are listed in Table 1-1.

Table 1-1 National Legislation on Biodiversity

Legislation (Official Gazette Date/Number - Last Revision Date)	National Strategy Documents
Law on National Parks (11.08.1983/18132 - 09.07.2018) Terrestrial Hunting Law (11.07.2003/25165 - 28.10.2020) Law on Animal Protection (01.07.2004/25509 - 13.12.2010) Regulation on the Protection of Wetlands (04.04.2014/28962 - 23.06.2022) Regulation for Implementing the Convention on International Trade in Endangered Species of Wild Fauna and Flora (27.12.2001/24623 - 20.07.2019) Regulation on Protection of Wildlife and Wildlife Development Areas (08.11.2004/25637) Law on Protection of Cultural and Natural Assets (23.07.1983/18113 - 15.06.2022) Regulation on Collection, Protection and Usage of Plant Genetic Resources (19.07.2012/28358) Law on Fisheries (04.04.1971/13799 - 17.02.2021) The Environmental Protection Agency for Special Areas (08.07.2011/ 27988) Environment Law (11.08.1983 / 18132 - 15.06.2022) Forestry Law (08.09.1956 / 9402 - 25.12.2021)	National Plan on on-site Protection of Plant Genetic Diversity (1998) National Environmental Action Plan (1999) National Forestry Program (2004) Climate Change Action Plan (2012) Turkish National Action Plan against Desertification (2015) National Rural Development Strategy (2015) National Biological Diversity Strategy and Action Plan (2019)
Law on Pasture (28.02.1998 / 23272 - 18.01.2019) Law on Coastal Areas Management (17.04.1990 / 20495 - 28.10.2020)	

1.3.2 International Requirements

International agreements, conventions, and protocols regarding protection of the habitats and species are listed below:

- The Convention for the Protection of the Mediterranean Sea Against Pollution (Barcelona Convention) (1981)
- The Convention on the Conservation of European Wildlife and Natural Habitats (BERN) (1984)
- United Nations Framework Convention on Climate Change (1994)
- The Convention on Wetlands of International Importance especially as Waterfowl Habitat (RAMSAR) (1994)
- International Convention for the Prevention of Pollution from Ships (MARPOL) (1998)
- The UN Convention on Biological Diversity (1997) and Cartagena Protocol on Biosafety (2004)
- Kyoto Protocol (2009)
- The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) (1996)
- Paris Agreement (2016)

1.3.3 Project Standards

The international lender standards concerning biodiversity for the Project are represented by the IFC Performance Standards (PS6) and related Guidance Notes (6), EBRD Performance Requirements (PR6) and Guidance Notes (6) as well as Equator principles IV (EP IV).

The impact assessment and critical habitat assessment are carried out in accordance with the following international requirements:

- IFC Performance Standards on Environmental and Social Sustainability,
- EBRD's Environmental and Social Policy and Performance Requirements
- International Union for Conservation of Nature (IUCN) Red List of Threatened Species
- The Birds Directive (2009/147/EC)
- The Habitats Directive (92/43/EEC10)
- Post-construction Bird and Bat Fatality Monitoring for Onshore Wind Energy Facilities in Emerging Market Countries - Good Practice Handbook (2023)

The IFC PS6 objectives can be listed as:

- To protect and conserve biodiversity,
- To maintain the benefits from ecosystem services,
- To promote the sustainable management of living natural resources through the adoption of practices that integrates conservation needs and development priorities.

Similarly, the EBRD PR6 objectives are as defined below:

- Protect and conserve biodiversity using a precautionary approach,
- Adopt the mitigation hierarchy in the design and implementation of projects with the aim of achieving no net loss, and where appropriate, a net gain of biodiversity,
- Maintain ecosystem services, and
- Promote good international practice in the sustainable management and use of living natural resources.

2 Methodology of Biodiversity Management Plan

The preparation of BMP was the result of 9-stage process. These stages are as presented in Figure 2-1. Stages 1 through 6 were conducted as part of the Environmental and Social Impact Assessment (ESIA) by the Consultant. IFC PS6 requirements were considered when determining recommendations for natural and critical habitats. These requirements are summarized in Table 2-1 for natural habitats and Table 2-2 for critical habitats. Additionally, EBRD PR6 requirements were considered for Priority Biodiversity Features.



Figure 2-1: Stages BMP Preparation

PS6 reference	PS6 text			
PS6 paragraph 14	'The client will not significantly convert or degrade natural habitats, unless all of the following are demonstrated:			
	 No other viable alternatives within the region exist for development of the project on modified habitat; 			
	 Consultation has established the views of stakeholders, including Affected Communities, with respect to the extent of conversion and degradation; and 			
	 Any conversion or degradation is mitigated according to the mitigation hierarchy.' 			
PS6 footnote 7	'Significant conversion or degradation is (i) the elimination or severe diminution of the integrity of a habitat caused by a major and/or long-term change in land or water use; or (ii) a modification that substantially minimizes the habitat's ability to maintain viable populations of its native species.'			
PS6 paragraph 15	5 'In areas of Natural Habitat, mitigation measures will be designed to achieve no net loss of biodiversity where feasible.'			
PS6 footnote 9	'No net loss is defined as the point at which project-related impacts on biodiversity are balanced by measures taken to avoid and minimize the project's impacts, to undertake on-site restoration and finally to offset significant residual impacts, if any, on an appropriate geographic scale (e.g. local, landscape-level, national, regional).			

Table 2-1: Requirements on Natural Habitats regarding IFC PS6

Table 2-2: Requirements on Critical Habitats regarding IFC PS6

PS6 reference	PS6 text 'In areas of critical habitat, the client will not implement any project activities unless all of the following are demonstrated:		
PS6 paragraph 17			
	 No other viable alternatives within the region exist for development of the project on modified or natural habitats that are not critical; 		
	 The project does not lead to measurable adverse impacts on those biodiversity values for which the critical habitat was designated, and on the ecological processes supporting those biodiversity values; 		
	 The project does not lead to a net reduction in the global and/or national/regional population of any Critically Endangered or Endangered species over a reasonable period of time; and 		
	 A robust, appropriately designed, and long-term biodiversity monitoring and evaluation program is integrated into the client's management program.' 		
PS6 paragraph 18	'In such cases where a client is able to meet the requirements defined in paragraph 17, the project's mitigation strategy will be described in a Biodiversity Action Plan and will be designed to achieve net gains of those biodiversity values for which the critical habitat was designated.'		
PS6 footnote 15	'Net gains are additional conservation outcomes that can be achieved for the biodiversity values for which the critical habitat was designated. Net gains may be achieved through the development of a biodiversity offset and/or, in instances where the client could meet the requirements of paragraph 17 of this Performance Standard without a biodiversity offset, the client should achieve net gains through the implementation of programs that could be implemented in situ (on-the-ground) to enhance habitat, and protect and conserve biodiversity'		

Mitigation hierarchy has been considered for mitigation measures as avoidance, minimisation, restoration and offset. Avoidance and minimisation measures prevent or reduce impacts, while restoration and offset measures remediate impacts that have already happened. Restoration and offset efforts typically have a lower likelihood of success and are more expensive for the developer than avoidance and minimization. The mitigation hierarchy is explained in detail in Table 2-3.

Table 2-3: Mitigation hierarchy

Approach	Explanation
Avoidance	 The first and most crucial phase in the hierarchy, relies on the actions taken to anticipate and prevent the development of undesirable outcomes.
	 Biodiversity impacts/risks must be detected early in the project planning stages to be effective.
	Can be effectively achieved through
	 project design (to situate infrastructure and choose designs that avoid impacts)
	 scheduling (to ensure the timing of project activities is favourable for biodiversity)
	 site selection to ensure projects are not located in high-risk locations.
Minimisation	 Actions to reduce the duration, intensity, and/or extent of impacts that cannot be totally avoided, insofar as it is practically possible.
	 Early planning and the development of design alternatives can help identify potential methods.
	 Can be implemented throughout the entire project life cycle, including design, construction, operation, closure, decommissioning, and repowering.
Restoration	 Actions intended to restore certain biodiversity features or ecosystem services damaged by project impacts that could not be fully avoided or minimized in the framework of the mitigation hierarchy.
	 There are many terms linked to restoration, including rehabilitation, reclamation and remediation.
	 Differs from general rehabilitation, which may not set out to restore the original biodiversity or the biodiversity components on which ecosystem services depend.
	 Also distinct from actions to mitigate project impacts by restoring biodiversity elsewhere as a level in the hierarchy of mitigation (see next item, "Offset").
	 Typically undertaken either during construction (to address impacts from temporary facilities such as laydown areas or roads), or towards the end of a project as part of decommissioning and/or repowering.
Offset	 Measures performed to compensate for severe negative residual impacts that cannot be prevented, minimized, or restored.
	 Should only be considered as a last resort and only after all avoidance, minimization, and restoration alternatives have been exhausted.
	 Seek to produce a quantifiable conservation result regarding the biodiversity aspects they target.
	 Effective conservation measures that produce biodiversity gains through prevented loss (addressing threats to prevent anticipated biodiversity loss) or restoration (for example, improving the condition of deteriorated habitat).

This plan was developed with the presumption that the effects during operation are primarily on birds and bats.

2.1 Stakeholder Engagement and Desktop Review

Desktop research was undertaken to understand the biodiversity values present in the vicinity of Project areas, identify existing conservation concerns, and identify gaps in existing knowledge. A literature review was completed in consultation with non-governmental organizations (NGOs), authorities, academic institutions-taxonomic specialists, and other recognized external experts.

3 Summary of the Biodiversity Baseline and Project Impacts

Biodiversity values that are subject to mitigation measures and management strategies within the scope of this BMP are listed in Table 3-1. Harmancık WPP, including its ETL and parts of the access road, is located within Biga Mountains KBA. Parts of the access road also overlaps Çanakkale Strait KBA. KBAs are internationally recognised areas that currently do not have legal protection in Türkiye but are widely used for various conservation aims. Biga Mountains KBA does not have any national protection status.

Table 3-1: Biodiversity Values of the Project Aol

Critical Habitats	Natural Habitats	KBA Trigger Species	Flora Species of High Conservation Concern	Fauna Species of High Conservation Concern
Verbascum hasbenlii and its habitat (EUNIS H3.6 Weathered rock and outcrop habitats: This habitat is distributed as local areas within woodland habitats in the Project Area)	G3.5 Pinus nigra Woodland G1.3 Mediterranean Riparian Woodland	Crocus candidus Galanthus trojanus	Digitalis trojana Verbascum lydium var. heterandrum Ferulago trojana Crocus candidus Cirsium balikesirense	Birds Clanga clanga Falco vespertinus Bats Hypsugo savii Miniopterus schreibersii Nyctalus lasiopterus Nyctalus leisleri Nyctalus noctula Pipistrellus nottula Pipistrellus pipistrellus pipistrellus pygmaeus Vespertilio murinus Reptile Testudo graeca Mammals Vormela peregusna Myomimus roachi Capreolus capreolus Ursus arctos

Table 3-2 provides a summary of evaluated biodiversity impacts for each group or category, the phases in which they are expected to occur, along with a description of the impact and sub-impacts if applicable.

Impact Ref. No.	Type of Impact	Receptor	Descriptions and Sub-impacts
1	Habitat loss and degradatio n	Crocus candidus Galanthus trojanus (KBA trigger) Verbascum hasbenlii and its habitat Natural Habitats	 Corridor effect Edge effect (can favour certain species over others, thus altering species evenness for the area, can significantly limit interior dependent species if present). Fragmentation Risk of wildfires
2	Disturbanc e of Flora and Fauna	Crocus candidus Galanthus trojanus (KBA trigger) Çannakale Strait KBA <i>Verbascum hasbenlii</i> and its habitat All Flora and Fauna Species	 Increased human activity Increased noise and vibration Artificial lighting Dust emissions (mainly from vehicle passage on site roads) Air, soil and water pollution (Degradation of abiotic elements, due to inadequate management of anthropogenic alterations to the environment, which the ecosystem is dependent on) Injury/Mortality risks of fauna (Wildlife-vehicle collisions)
3	IAS competitio n	Crocus candidus Galanthus trojanus (KBA trigger) <i>Verbascum hasbenlii</i> and its habitat Natural Habitats	 Introduction of IAS which can compete with local/native species and threaten KBA integrity, through anthropogenic factors (equipment and vehicles, landscaping, improper waste management) Predation injury and mortality due to feral dogs and cats Disturbance and competition by feral species Disease transmission from feral animals to wildlife (toxoplasmosis, scabies, etc)
		Flora and Fauna Species	
4	Collision injury / mortality	Birds and Bats	 Injury and/or mortality due to direct collision with structures, mainly but not limited to fast moving components like turbine blades, but also structures that pose visibility challenges under certain conditions such as overhead power lines
5	Barotraum a mortality	Bats	 Injury and/or mortality due to interaction with pressure variations caused by moving turbine blades, frequently causing fatal internal damage
6	Electrocuti on injury / mortality	Birds	 Injury and/or mortality due to interaction with electrified structures, mainly the ETL, especially of larger bodied species, since triggering electrocution requires interacting with multiple different electrified components of a structure
7	Avoidance	Birds	 Barrier effect (altering flight path and/or altitude at an energy cost in order to move around the WPP) Displacement effect (altering utilization frequency and/or patterns of the habitat due to WPP operation)
8	Artificial lighting	Birds, Bats	 Attraction of prey species (insects) Decreased ability of orientation and navigation (especially nocturnal migrants) Disturbance to sleep patterns Increased pressure from predators

Table 3-2: The Summary of the Project Impacts of Operation Phase

4 Biodiversity Management

This section provides details of the outline aims of this BMP together with objectives required to be met in order to deliver these aims.

Table 4-1 below lists the aims and objectives that form the basis of the BMP. These aims may be subject to change as required through ongoing management of the BMP.

These objectives have been established taking into account the impacts and the biodiversity features presented in Section 3.

Table 4-1: Aims of Management Plan

Aim Ref. No.	Aim	Associated Objectives	Target Key Performance Indicator (KPI)
1	To minimise impacts to biodiversity during operation	 a) Minimise disturbance to habitats and flora beyond the Project footprint during operation b) Reduce risk factors for wildlife injury and mortality c) Raise awareness among internal and external stakeholders on biodiversity and conservation priorities 	 No Project activity outside the established footprint will be conducted. Measures will be implemented to prevent accidental injury and mortality of fauna species due to operation activities. Trainings and educational materials will be provided to key stakeholders to increase awareness of biodiversity and conservation priorities The reporting and the data obtained will be monitored by the Corporate Biodiversity Specialist. The tasks of storing and registering the reports and data as a soft copy will be carried out for the annual biodiversity report. No Project activity or disturbance to biodiversity values recorded outside of approved footprint. Monitoring reports on the integrity natural habitat do not show loss and degradation of natural habitat Operation biodiversity monitoring reports do not contain incidents of fauna injury and mortality. Bird and bat mortality estimations are below threshold values 100% of personnel and contractors are covered by biodiversity requirements awareness campaign Reports on trainings, information disclosure meetings and attendants
2	Prevent adverse impacts to integrity of any Protected and/or Key Biodiversity Areas	 a) Minimise collision and electrocution risk to those qualifying bird species and assemblages associated with the Protected and Key Biodiversity Areas b) Restore/compensate habitats lost to the Project from within the Protected and Key Biodiversity Areas c) The stripped topsoil will be used in reinstatement works. 	 No Project activity outside the established footprint will be conducted. Measures will be implemented to prevent accidental injury and mortality of KBA trigger species. Monitoring reports on the KBA do not indicate degradation of the integrity of the KBA and its qualifying features.
3	To achieve no net loss of important biodiversity	 a) Minimise loss of important habitats and flora b) Minimise impacts to important fauna c) Achieve no net loss d) Manage risk of introduction or spread of invasive species e) Achieve net gain for critical habitat trigger species 	 Project operation activities do not result in net loss of natural habitats, sensitive flora, bird and bat species, especially those threatened and migrant species, or sensitive terrestrial fauna. Measures are implemented to prevent IAS introduction and spread Net gain for <i>Verbascum hasbenlii will be detailed in BAP</i> Periodical monitoring reports prepared, and results do not show net loss of habitats, flora, or fauna species. If a net loss is identified, the quantification is reported; actions to address the loss will be defined under the Project Biodiversity Action Plan (BAP) and Offset Plan, which will outline the measures to achieve no net loss. No infestation with invasive species within the Project recorded

Aim Ref. No.	Aim	Associated Objectives	Target		Key Performance Indicator (KPI)
				As a result of the CHA revision in Q1 2025, <i>Clanga pomarina</i> and <i>Circaetus</i> <i>gallicus</i> species, which were previously identified as potential CH triggers, were designated as non- triggers	 Successful seeding and translocation monitoring records for sensitive flora (if any) BAP will be prepared for <i>Verbascum hasbenlii</i> which will address net gain requirements

5 Management Actions

This section presents the biodiversity management actions and targets required to be delivered the aims listed within Section 4 The impacts presented in Table 3-2 have been compiled in line with the general objectives presented in Table 4-1 and presented as a management plan in Table 5-1.

Construction activities related impacts occur, either directly (e.g., mortalities caused by the activities, habitat fragmentation, wildlife disturbance) or indirectly (e.g., due to habitat deterioration that may cause a change in distribution and abundance of biodiversity in the area). Operational impacts are mostly bat and bird injury and morality, along with impacts associated with sustained human activity on the ground (vehicle collisions, disturbance, feral animal presence).

Table 5-1: Biodiversity Management Plan for operation phase

Type of Habitat/ Species	Impact	Location	Action	Responsibility for action	Relevant Plans and Procedures	Timing of Monitoring	KPI
Natural Critical	Habitat fragmentation and edge effects Creation of barriers to movement	Project footprint (along the project area, the ETL, site and access roads)	 Avoidance Footprint creep will be prevented Minimisation If required for maintenance purposes, access will be limited to existing designated routes, and off-road driving will not be permitted Actions that expand the footprint (widening roads, clearing additional areas for operational purposes) will not be undertaken except if justifiable and highly essential. The footprint of the Project components will be kept at established dimensions. No off-road driving will be allowed. If migration hotspots of terrestrial fauna are identified as a result of construction or operational monitoring, further actions will be developed and implemented. 	Project Company, Contractors, and Subcontractors	Road Safety Management Plan (or relevant)	Quarterly	No change in Project footprint. Habitat connections created (if terrestrial fauna migration is pertinent).
Natural Critical	Risk of wildfire	Project footprint (along the project area, the ETL, site and access roads)	 Avoidance Proper waste management will be ensured. Staff will be made aware of waste management measures Cigarette disposal will be carefully managed at designated areas. The area beneath and near the ETL and other significant electrified components will be kept clear of vegetation and other flammable buildup of materials. Fire will not be permitted as a means to clear vegetation during site maintenance activities. In cases where stubble fires are encountered, the Provincial Directorate of Environment, Urbanisation and Climate Change will be notified. 	Project Company, Contractors, and Subcontractors	Waste Management Plan Road Safety Management Plan	Weekly	100% of personnel and contractors are covered by biodiversity requirements awareness campaign.
Natural Critical Modified Fauna species	Noise and Vibration Disturbance	Project footprint (along the project area, the ETL, site and access roads)	Minimisation • For operation and maintenance activities, use low noise emitting vehicles, machinery, and equipment	Project Company, Contractors, and Subcontractors	Environmental Noise Management Plan Environmental Management and Monitoring Plan	As per Noise Management Plan	Not exceed threshold values of the Environmental Management and Monitoring Plan 100% of personnel and contractors are covered by biodiversity requirements awareness campaign
Natural Critical Modified	Light disturbance	Project footprint (along the project area, the ETL, site and access roads)	Minimisation Lighting for operation and security purposes will be inward and downward facing to minimise light pollution in remote areas, and to minimize the 	Project Company, Contractors, and Subcontractors	Operation Lighting design	Quarterly	Light pollution kept at minimum. No Records of incidents with

Means of verification

Biodiversity monitoring reports Record of the restoration studies

Corrective action

Immediate reinstatement of procedures

Postreinstatement inspection records, if necessary

Site walkover inspection records Biodiversity monitoring reports Training and induction records. Positive incentive – reward system for employees and subcontractors

Educational material posted on boards.

\$ Records of monitoring schedule and result of environmental noise Training attendance sheets and transcript of the presentation Educational material posted on boards.	Selection of low noise emitting options whenever possible.
Site walkover inspection records (at night-time)	Wildlife-friendly lighting design Replace offending lights

records (at night-time)	Replace offending lights
Records of	with better
incidents with	alternatives /

Type of Habitat/ Species	Impact	Location	Action		Responsibility for action	Relevant Plans and Procedures	Timing of Monitoring	КРІ
			•	disturbance to nocturnal wildlife, birds and invertebrates. Artificial light will be limited to areas where it is essential. Fewer lights will be preferable to more lights and lighting design will be prevented from affecting the sky as much as possible. LEDs will be preferred than HPS to lighting. Low lux lighting will be preferred. Prefer trigger lighting for areas that do not require constant illumination. Turbine lights will flash simultaneously.				wildlife due to light pollution
Natural Critical Modified	Invasive-alien distribution risk Feral/stray introduction (cats and dogs)	Project footprint (along the project area, the ETL, site and access roads)	Avoidar	 Vehicles, equipment and machinery for operation and maintenance will be cleaned before the entrance of the construction sites. Parking areas and camp sites will be kept clean against spreading of invasive species. Feral animals will not be fed or kept as pets Sightings of feral animals will be reported and authorities (likely the municipality) will be contacted for removal of feral animals Dog and cat food, and food waste will not be discarded in a manner which would provide foraging opportunities for feral animals If operation staff is allowed to keep pet / guard animals, the animals will not be allowed to roam free, and will be kept on a leash or within a fenced off area Any guard / pet animals on-site will be neutered or spayed, and will receive frequent veterinary checks Staff will receive training about feral and pet animal policy 	Project Company, Contractors, and Subcontractors	Invasive Species Management Plan	Quarterly	No infestation with invasive species within the Project. No stray dogs or cats observed at Project site No free roaming pets observed No records of injury to wildlife due to feral and stray animals. 100% of personnel and contractors are covered by biodiversity requirements awareness campaign.
Natural Critical Modified	Accidental loss of fauna Disturbance to fauna Killing/injuring fauna Displacement of fauna	Project footprint (along the project area, the ETL, site and access roads)	Avoidar •	Herbicide and fire will not be permitted as a means to clear vegetation during site maintenance activities Regular trainings will be held in order to raise awareness associated with the natural assets & importance of the site and protection of the natural structure including legislative framework, related conventions and their requirements as in line with the Environmental & Social Management System. If bird nests are detected on structures such as the ETL poles or pylons, if they are not active, nests will be safely translocated by a qualified expert. Maintenance works or other actions	Project Company, Contractors, and Subcontractors	Relocation procedure or relevant Terrestrial monitoring reports	Quarterly	No bird nests lost as a result of operation No records of injury/loss of wildlife due to operation. 100% of personnel and contractors are covered by biodiversity requirements awareness campaign.

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Means of verification

wildlife due to light pollution Corrective action remove

inessential lighting

Site walkover inspection . records Postreinstatement inspection records Training attendance sheets and transcript of the presentation Veterinary records of pet / guard animals Educational material posted

on boards.

Immediate reinstatement Improve waste management practices

Speed limit training records Training attendance sheets and transcript of the presentation Translocation records Site walkover records Punishment – reward system for employees and contractors Improve fauna management practices

Type of Habitat/ Species	Impact	Location	Action	Responsibility for action	Relevant Plans and Procedures	Timing of Monitoring	KPI
			 that might otherwise disturb the will not be conducted until after translocation. Minimisation Environmental incidents will be recorded to monitor the need additional preventative measuring lemented alongside the cuanimal exclusion methods. As far as possible, night work be performed. A ban on hunting and fishing la construction and operation state Induction training will be used awareness of staff operating respect all forms of wildlife. Speed limits will be kept low. I speed limit in village and on for roads is 30 km/h. Wildlife crossing signs will be and maintained based on biod monitoring outcomes. Restoration Opportunities to deploy safe respect all boxes, safe perches and ristructures will be identified. Bi bat boxes, safe perches and ristructures for birds, and hiber for terrestrial species can be considered. 	er e for ures to be urrent will not by aff l to raise motor ion on d limits to Note that orest installed diversity mesting, nating ird and mesting			Wildlife signs installed. Nesting, roosting, perching, and shelter structures deployed.
Avifauna	Collision with turbine blades	Turbines	 Minimisation Turbine structures will not properching or nesting opportunit birds. If pre-operation and/or operation monitoring indicates increased collision risk and high mortalit estimates of avifauna of signif site specific shutdown on dem protocol will be developed and implemented, and training will provided to the staff on a regubasis. Painting of one turbine blade i colour is a proven effective monitor decreasing collision mortal birds by increasing visibility. To method will be adopted if black replaced, or in case of capacities the project. 	ties for Subcontractors ion bird d y iicance, hand d l be ular in black easure lity of 'his les are ty	Biodiversity Monitoring as detailed in this document	As detailed in bird monitoring requirements	No records of bird injury or mortality due to blade collision Periodical shutdown on demand training and drills is provided to all involved employees and contractors.
Avifauna	Collision with ETL cables	ETL	 Minimisation The company will liaise with T order to achieve management pertaining to the ETL. Marking of the ETL: Install brit coloured bird flight diverters or visibility, 5-10 meters apart m for the entire length of the ETI Installation pattern of the mark be staggered. Other marker options can also considered but safety and efficience. 	t targets Subcontractors ght with night aximum, L. kers can	Biodiversity Monitoring as detailed in this document	As detailed in mortality monitoring requirements	Records of communication with TEIAS No records of wildlife injury or mortality due to collision with ETL cables.

Means of verification Corrective action

Bird monitoring report with collision risk assessment

Bird mortality report with statistical mortality estimation Shutdown on demand protocol document Turbine shutdown

reports Training and drill records for shutdown on demand protocol Shutdown on demand protocol implemented Adjust turbine design during maintenance, repowering or capacity extension

Bird mortality report with statistical mortality estimation

Site walkover records

Replacement of markers Decreased marker spacing

Type of Habitat/ Species	Impact	Location	Action		Responsibility for action	Relevant Plans and Procedures	Timing of Monitoring	KPI
				reducing bird collisions will be verified. These might include spheres, swinging plates, strips, bird flappers, ribbons, tapes, flags, fishing floats, and crossed bands with day and night visibility. Many types of line markers can fade, break, slip along the span or become obsolete as time passes. For these types of line markers, if preferred for any segments of the ETL, periodic checks and maintenance will be applied. Options that are lower maintenance are available in the market and can be preferred such as metal spirals which can last longer without fading or breaking, and not fall off as easily as some of the other options.				
Avifauna	Electrocution	ETL	Minimisa	ation Structures associated with the ETL will not offer perching or nesting opportunities for birds. Based on the operation phase mortality monitoring results, if electrocution mortality of avifauna is detected to be significant concern, further measures will be considered Measures will depend on component designs, and may include solutions such insulation of energized parts, installation of phase covers, or increased wire distance.	Project Company, Contractors, and Subcontractors	Biodiversity Monitoring as detailed in this document	As detailed in mortality monitoring requirements	Records of communication with TEIAS No records of wildlife injury or mortality due to collision with ETL cables.
Bats	Collision with turbine blades / barotrauma due to moving blades	Turbines	Minimisa		Project Company, Contractors, and Subcontractors	Biodiversity Monitoring as detailed in this document	As detailed in mortality monitoring requirements	No records of bat injury or mortality

Means of verification

Corrective action

Bird mortality report with statistical mortality estimation Site walkover records Replacement of markers Decreased marker spacing Improvements to ETL design

Bat monitoring report Bat mortality report Further mitigation measures to turbine operation parameters after assessment of monitoring

Type of Habitat/ Species	Impact	Location	Action	Responsibility for action	Relevant Plans and Procedures	Timing of Monitoring	КРІ
Natural Critical Modified	Environmental pollution risk	Along the project area, ETL line, access roads	 Avoidance Organic waste will be managed in a way to prevent wildlife access to it. Minimisation Waste storage outside of the landfill will be situated in bins with lids secured. Waste oils and/or hazardous substances will be kept in sealed containers and/or covered. All domestic waste outside the landfill/waste-storage facility will be stored in vermin-proof bins with lids secured. Proper waste disposal will be provided avoiding natural habitats. Prevent will be ensured wastewater discharge into aquatic habitats, especially in breeding seasons. Accidental release of pollutants and potentially contaminated sediments will be controlled. 	Project Company, Contractors, and Subcontractors	Waste Management Plan	Monthly	No negative impact records on habitat or species regarding waste pollution

Means of verification

Site walkover records Records of incidents involving wildlife

Corrective action

Waste management training

6 Monitoring and Adaptive Management

6.1 Monitoring Requirements

This section provides a summary of the monitoring requirements that must be implemented under the BMP.

In essence, the Project will need to establish a robust post-construction bird and bat monitoring programme. This programme will run for at least three years, after which it will be evaluated whether the goals of the BMP have been satisfactorily met or additional monitoring is required to further inform mitigation and adaptive management. Current and emerging commitments to national authorities (Nature Conservation and Natural Parks, DKMP) will also shape the course of the monitoring programme.

The goal of the monitoring programme will be to:

- 1. compare baseline bird and bat population and activity values to operation activity levels in order to verify the extent of impact of the Project on bird and bat species, which will be used to better align mitigation and adaptive management,
- establish 1st, 2nd and 3rd year operation bird and bat population and activity values for future studies which will periodically occur through the lifetime of the Project, in addition to prior to singular events such as capacity extension,
- 3. employ a mortality monitoring programme to identify bird and bat injury and mortality via collision, electrocution, and barotrauma and identify the optimal mitigation measures, while minimizing energy production loss,

These surveys will be conducted by skilled bird and bat experts, preferably one who has prior experience with carrying out bird and bat studies at WPPs.

The bird groups to focus on during the bird monitoring survey are as follows:

- Large soaring migrant species of Türkiye's migratory routes
- Large soaring resident species, especially if globally or nationally threatened

The bat groups to focus on during the bird monitoring survey are as follows:

- Mid- to long-range migratory species
- High and medium collision risk species
- Regionally or globally threatened species

Monitoring reports presenting outcomes for each monitoring period will be independently audited.

Based on monitoring results on the statuses of biodiversity features at different phases of the Project, additional measures will be taken as necessary. A general framework for periodical monitoring studies to be conducted throughout the Project, and biodiversity features to be monitored are as the following:

- Status of critical habitat values and PBF trigger species
- Status of KBA integrity and species of high conservation concern, implementation of related management controls
- Success of translocation and seeding (If any)
- Changes in populations of target fauna species to be identified through surveys.

Management controls that are required to be developed based on monitoring results will be addressed within the scope of the BMP and BAPs.

Additional locations for operational monitoring may become apparent as pre-construction work progresses and will be reported within the BMP as revisions.

Aspect	Description	Timing/ Frequency	KPI	Responsibility
Habitat Monitoring	Natural habitats adjacent to construction sites will be regularly monitored for the presence of avoidable and unintentional disturbance including:	Vegetation Period (March-June)	Absence of stress or disturbance signs	Project Company, Contractor, and Subcontractors
	 habitat loss and habitat fragmentation; increased exposure to atmospheric pollutants due to airborne dust (e.g., signs of dust deposition on vegetation); exposure to contaminants due to accidental spills, waste management and disposal etc. 			
	A monitoring register will be filled in and photographic documentation will be collected, Corporate-level Biodiversity Specialist will administer the register, which will be used within the Annual Biodiversity Report (including bird and bat reports), to document any issue detected and corrective actions put in place.			
	Results are presented and discussed in E&S Progress Reports.			
Flora Survey and Monitoring	The presence of invasive flora species in the Project area will be monitored regularly.	Annually	Absence of invasive species 70% of translocation/seeding	Project Company, Contractor, and Subcontractors
	Areas monitored will include areas recently disturbed such as soil and topsoil stockpiles, access roadsides, reclamation sites, etc.		success (if any)	
	Target flora species will be monitored:			
	– Verbascum hasbenlii			
	– Digitalis trojana			
	 Verbascum lydium var. heterandrum 			
	 Ferulago trojana Crocus candidus 			
	 Circus candidus Cirsium balikesirense 			
Invasive Alien Species	Identification of invasive alien species Registration of IAS species encountered and their distribution in the Project area	Annually (unless particular issues are recorded during previous monitoring)	No infestation of invasive species within the Project Aol	Project Company

Aspect	Description	Timing/ Frequency	KPI	Responsibility
Terrestrial Fauna Monitoring	Accidents involving wildlife or the observation of live animal or carcasses within and around the Project area will be registered and monitored. The incident report will include the following records: - Date/Location - Visual (if any) - Species name - Injury/Mortality of fauna, etc. - Economic loss - Human health Additional mitigation measure to avoid wildlife accidents and encounters will be taken if needed based on the first monitoring results. Records of accidents will be maintained as they occur and reported. The incident report will include the following content: date and location, visual evidence (if any), species name, injury or mortality of fauna, economic loss, and impact on human health.	Bi-annually (Records regarding accidents will be kept as the case occurs and will be reported bi- annually by Project Environmental Team and biodiversity expert). Additional annual monitoring (by fauna experts)	Absence of accidents involving fauna species Absence of exceptional or frequent fauna encounters	Project Company, Contractor, and Subcontractors
Bird Monitoring Vantage Point (VP)	Monitoring will be conducted per NatureScot guidelines and following VP methodology, producing a robust Collision Risk Assessment. Methodology will follow the methodologies established in 2024 bird baseline surveys and also implement recommended and accepted additions and revisions to 2024 survey parameters. Results are discussed in interim (pre-liminary) and final annual bird reports.	First 3 years of operation, to be reevaluated after. Migration and breeding periods.	Absence of disturbance to migrating and threatened species Collision risk analysis values are below acceptable threshold values	Project Company (Internal resources of The Project company (full-time wildlife expert) Contractor or/and Subcontractors (Independent ornithological expert)
Breeding Bird / Raptor Survey	Breeding bird surveys will be conducted within the Project Aol via point counts. Necessity for breeding raptor surveys encompassing the Aol and/or at appropriate buffer for raptor species of concern will be evaluated following pre-operation surveys. Methodology will follow the methodologies established in 2024 bird baseline surveys and also implement recommended and accepted additions and revisions to 2024 survey parameters. Results are discussed in interim (pre-liminary) and final annual bird reports.	Once annually in years 1-3 and refresh at year 10, 20 and 30. Locate nests in March/July	No record of disturbance of nests or collision Nest success No clutch lost	Project Company (Internal resources of The Project company (full-time wildlife expert) Contractor or/and Subcontractors (Independent ornithological expert)

Aspect	Description	Timing/ Frequency	KPI	Responsibility
Bat Monitoring	Monitoring will be conducted per NatureScot guidelines and following appropriate methodology for ground automated static detector sampling. Sound analysis will be carried out by an expert with software assistance. Methodology will follow the methodologies established in 2024 bird baseline surveys and also implement recommended and accepted additions and revisions to 2024 survey parameters. Results are discussed in interim (pre-liminary) and final annual bird reports.	3 seasons (spring, summer and autumn) April – October (mid-August will be covered) First 3 years of operation, to be reevaluated after	Absence of stress or disturbance signs.	Project Company (Internal resources of The Project company (full-time wildlife expert) Contractor or/and Subcontractors (Independent bat expert)
Shutdown on demand (SDoD) for bird species	Continuous monitoring for sensitive bird species (large soaring migrant and resident species) Approach will be determined by the Project company and technology alternatives will be considered. Monitoring will align with the SDoD Technical Note to be developed, and with site-specific protocols to be created where necessary. These documents are structured to comply with the shutdown protocol and will be revised as needed based on the outcomes of PCFM implementation.Results are discussed in annual shutdown on demand reports.	Ongoing during operation Full coverage of periods target species are active Programme reviewed every 5 years	No record of fatal collision or injury	Project Company (Internal resources of The Project company (full-time wildlife expert) Contractor or/and Subcontractors (Independent ornithological expert)
Bird and bat fatality monitoring	To be designed according to Good Practice Handbook on Post-construction Bird and Bat Fatality Monitoring (PCFM) for Onshore Wind Energy Facilities (WEFs) in Emerging Market Countries (2023) guidelines. All turbines and the ETL will be included in monitoring design. Results are discussed in interim (pre-liminary) and annual post construction fatality monitoring reports.	First 3 years of operation, to be further reviewed. 3 seasons (spring, summer and autumn) April – October (mid-August will be covered) At least 4 experimental studies each year of monitoring. Refresh study will be prescribed based on further monitoring. Monitoring will continue March- November until mitigation success is achieved, and bird/bat fatality is reduced to threshold.	Low collision mortality or injury rates of large soaring migrant and resident species. The collision mortality or injury rates are below the CRM estimations from the Baseline studies conducted in 2024. Bat fatality estimation thresholds identified by expert and do not exceed thresholds Achieve a 70% reduction in bat fatality rate in subsequent monitoring years compared to the first-year PCFM mortality results, as a result of implemented curtailment measures.	Project Company (Internal resources of The Project company (full-time wildlife expert) Contractor or/and Subcontractors (Independent ornithological expert)

6.2 Adaptive Management

Adaptive management will be informed by findings from the monitoring described above Project Company. Where it is identified that targets associated with the BMP actions are not being met, Project Company will be responsible for rectifying this through appropriate adaptive management, to the approval of the Project Lenders. As a brief indication of what this may comprise, the following measures could feasibly be deployed:

- Turbine curtailment measures
- Shutdown on demand protocol implementation
- Improved spatial and temporal coverage of the airspace for bird monitoring,
- Increased insulation solutions for electrified components,
- Additional bird deflectors and markers installations,
- Providing perching and nesting structures away from the Project structures
- Supplementary seed-collection and plant translocation; if necessary
- Increased invasive species management.

6.3 Reporting

The BMP is required to be updated whenever new sets of data become available during the Project's course, including first and foremost the CHA. Following the CHA, first year, and second year of operational surveys, necessary updates will be incorporated into the BMP. Additionally, if significant flora and fauna assemblages within the Project area is identified, their specific monitoring requirements might be outlined via BAPs.

Contractors and subcontractors will be required to follow habitat and species-specific procedures developed based on these assessments. External experts responsible for biodiversity studies within the Project will provide reports to the Project company (relevant authority) on the implementation of mitigation measures, management controls, monitoring strategies, and their site-specific findings.

The results of biodiversity management and monitoring, as outlined in the BMP, will be shared with all interested parties. Operational management and monitoring process will include the following reporting.

- Flora and Habitat Survey Results (will be submitted in E&S Progress Reports)
- Bird and bat mortality monitoring results
- Vantage Points survey results with Collision Risk Assessment
- Breeding Bird Survey Results
- Bat survey results
- Annual shutdown on demand report
- Revision of Critical Habitats Assessment, if necessary
- Revision of Operational BMP, if necessary

The results of biodiversity management and monitoring, as outlined in the BMP, will be submitted bi-annually. CHA and BMP will be revised annually, if necessary. The Corporate-level Biodiversity Specialist will administer the monitoring register, which will be used within the Annual Biodiversity Report (including bird and bat reports).

7 No Net Loss / Net Gain Approach

7.1 Methodology

To establish the extent of the mitigation required, a habitat-based approach was used to calculate Biodiversity Net Gain (BNG) / Net Loss (NL) for the biodiversity features associated with the habitats that will be altered by the Project, as outlined in the following sections.

The process of calculating no net loss or gain involves evaluating both the area and quality of the habitat that will be lost, as well as the area and quality of the habitat that will be created or restored. This assessment allows for a comprehensive calculation of the net biodiversity gain or loss for the development. The DEFRA³ / The Statutory Biodiversity Metric⁴ was adopted and customized to determine the Biodiversity Net Gain (BNG) or Net Loss (NL) requirements for each EUNIS habitat type. For the identification and quantification of habitats, a remote sensing and field survey approach was used, employing multi-spectral imagery captured by satellites.

To compensate the adverse impacts on habitats within the Project's impact area, off-site restoration activities will be implemented in degraded or altered habitats. In this context, and to remain consistent with the terminology used in relevant standards, the term "loss" has been revised to "alteration" in this section. After the completion of these restoration activities, and during the decommissioning phase, any residual impacts will be re-evaluated, and if habitat creation is deemed necessary, corresponding measures will be outlined in the Offset Management Plan.

The steps taken to carry out the calculation are outlined below:

7.1.1 Establishment of Baseline (Pre-Intervention)

The first step involves assessing the biodiversity value of the land before any development activities commence. To accomplish this, habitats within the project area of influence boundaries were mapped using Landsat imagery data. Initially, habitats were identified and classified through a desktop-based approach. These classifications were subsequently refined through site visits conducted by qualified ecologists, who assessed and documented the habitat quality during dedicated baseline studies.

The next step involves evaluating the potential impact of the development on habitats. This assessment takes into account not only the area of habitat to be lost but also the quality of the habitat, which is measured in terms of "Baseline Biodiversity Units". The formula employed to calculate the "Baseline Biodiversity Units" is as follows:

Baseline Biodiversity Units =	
$(A_{t0} \times \boldsymbol{Q}_D^{t0} \times \boldsymbol{Q}_C^{t0}) \times (\boldsymbol{Q}_{SS}^{t0})$	

- A Area of Habitat (ha)
- Q_C– Condition (a quality measure)
- Q_D Distinctiveness (a quality measure)
- Qss Strategic Significance (a quality measure)
- t0 Pre-intervention (baseline)

³ Department for Environment Food & Rural Affairs

⁴ https://www.gov.uk/government/publications/statutory-biodiversity-metric-tools-and-guides

The area of habitat to be lost was determined by identifying all habitats within the footprint of the project. The quality of these habitats is assessed based on the criteria of Condition, Distinctiveness, and Strategic Significance. Each category of these criteria is assigned a corresponding multiplier score, as outlined in the tables below.

Condition:

Habitat condition is an indicator of the state or health of a habitat, used to assess variations among areas of the same habitat type. This condition is frequently influenced by factors such as past and current management practices, as well as land use. The score reflects the biodiversity value of the habitat in relation to other habitats of the same type.

Table 7-1: Condition Categories and Multiplier Scores for Habitats
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Condition		
Category	Multiplier	
Good	3	
Fairly Good	2.5	
Moderate	2	
Fairly poor	1.5	
Poor	1	

Distinctiveness:

Distinctiveness is an assessment based on the specific type of habitat and its unique characteristics. The habitat type is determined through professional surveys conducted by qualified experts.

Distinctiveness				
Category	Multiplier	Definition		
Very High	8	Critical habitats refer to areas of remaining habitat that are limited in size, with a significant portion of them lacking protection through formal designation.		
High	6	Natural habitats that support key species and essential ecological processes may meet PBF criteria, particularly when situated within or enhancing the ecological integrity of Key Biodiversity Areas		
Medium	4	Natural habitats with moderate wildlife benefits and ecological value, supporting a range of species and ecosystem functions.		
Low	2	Agricultural and urban land uses with lower biodiversity value, typically supporting fewer species and ecosystem functions.		
Very Low	0	Urban areas consist of artificial structures, including un-vegetated, sealed surfaces, and built linear features, all of which have very low biodiversity value, such as paved roads and buildings.		

Strategic Significance:

A score reflecting the local significance of the habitat, determined by its location, habitat type, and whether it has been identified in a local strategy plan.

Table 7-3: Strategic Significance and Multiplier Scores

Strategic Significance			
Category	Multiplier	Definition	
High	1.15	Formally identified in local strategy.	
Medium	1.1	Location ecologically desirable but not in local strategy.	
Low	1	Area/compensation not in local strategy/no local strategy, and there is no evidence to suggest that the habitat is of medium significance.	

7.1.2 Biodiversity Units of Habitat Creation

The next step involves calculating the potential biodiversity gains through the establishment of habitat areas. Habitat creation aims to enhance biodiversity by restoring priority habitats on land where these habitats were previously lacking or where only minimal remnants of the habitat currently remain.

The formula used to calculate 'Biodiversity Units of Habitat Creation' is:

Baseline Biodiversity Units of Habitat Creation = $[(A^{t1} \times Q_D^{t1} \times Q_C^{t1}) \times (R_D \times R_T) \times (Q_{SS}^{t1})] \times (R_{OS})$

- A Area of Habitat (ha)
- Q_c Condition (a quality measure)
- Q_D Distinctiveness (a quality measure)
- Qss Strategic Significance (a quality measure)
- R_D Difficulty (a risk factor)
- R_T Time to Target Condition (a risk factor)
- Ros Spatial Risk (off-site risk factor)
- t1 Post-intervention

7.1.3 Biodiversity Units of Habitat Restoration

The next step involves calculating the potential biodiversity gains through the restoration of habitat areas. Habitat restoration focuses on enhancing biodiversity by rehabilitating priority habitats on land where they were previously degraded or where only minimal remnants of the habitat remain.

The formula used to calculate 'Biodiversity Units of Habitat Restoration is:

Baseline Biodiversity Units of Habitat Restoration = $[|\langle \{ (A^{t1} \times Q_D^{t1} \times Q_C^{t1}) \cdot (A^{t0} \times Q_D^{t0} \times Q_C^{t0}) \} \times (R_D \times R_T) \rangle + (A^{t0} \times Q_D^{t0} \times Q_C^{t0}) | \times (Q_{SS}^{t1})] \times (R_{OS})$

- A Area of Habitat (ha)
- Q_c Condition (a quality measure)
- Q_D Distinctiveness (a quality measure)
- Qss Strategic Significance (a quality measure)
- R_D Difficulty (a risk factor)
- R_T Time to Target Condition (a risk factor)
- Ros Spatial Risk (off-site risk factor)
- t1 Post-intervention
- t0 Pre-intervention (baseline)

In addition to the habitat extent and quality factors used to determine biodiversity units, as outlined above, potential gains also account for several risk factors. These include a time risk factor, which reflects the delay between the loss of habitats and the establishment of functional offset habitats; a difficulty risk factor, which addresses uncertainties regarding the success of offset areas; and a spatial risk factor, which considers the distance between the project site and the offset areas.

Difficulty Risk Factor:

A pre-determined score based on the level of difficulty associated with the creation, restoration, of the habitat type.

Difficulty Risk Factor		
Category	Multiplier	
Very High	0.1	
High	0.33	
Medium	0.67	
Low	1	

Table 7-4: Difficulty Risk Factor categories and multiplier scores for habitats

Time to Target Condition:

A pre-determined score based on the duration required for the habitat type to be established and achieve the target condition.

Time to Target Condition		
Time (years)	Multiplier	
0	1.000	
5	0.837	
10	0.700	
15	0.585	
20	0.490	
25	0.410	
30	0.343	
>30	0.320	

Spatial Risk:

A score determined by the distance between the habitat loss site and the location where habitat creation or enhancement is implemented.

Spatial Risk							
Category	Multiplier						
Compensation inside the Project area or its immediate vicinity.	1.00						
Compensation outside the Project area but within Area of Influence	0.75						
Compensation outside the Area of Influence	0.50						

Table 7-6: Spatial Risk categories and multiplier scores for habitats

7.1.4 Biodiversity Net Change Calculation

Biodiversity Net Gain (BNG) / No Net Loss (NL) is calculated by subtracting the biodiversity units to be lost due to development from the biodiversity units to be gained through habitat offset creation or restoration. The scenario where the losses and gains are balanced indicates No Net Loss (NNL). BNG is achieved when the gains surpass the losses by the desired percentage. To achieve Biodiversity Net Gain (BNG), it is required that the habitat units gained exceed 10% of the baseline habitat units calculated.

7.1.5 Monitor and Reporting

The application of this metric allows the Project to monitor its performance through the implementation of long-term monitoring. Monitoring and reporting should be sustained for a predetermined period following the completion of the development to evaluate the effectiveness of any BNG. The project's offset plan should include a monitoring and evaluation program.

7.2 Biodiversity Net Loss and Gain Calculations

The habitat alteration anticipated due to the construction activities within the project area, which includes site roads, turbine footprints, ETL (Electrical Transmission Lines), and switchyard areas, has been thoroughly assessed. Based on the analysis, it has been assessed that these areas will experience habitat degradation, with a total habitat alteration of 76.72 hectares.

Harmancık WPP, including its ETL and parts of the access road, is located within Biga Mountains KBA. Parts of the access road also overlaps Dardanelles Strait KBA; however, the access road makes use of existing roads through the KBA. KBAs are internationally recognised areas that currently do not have legal protection in Türkiye but are widely used for various conservation aims. Biga Mountains KBA does not have any national protection status.

Table 7-13 provides the Baseline Biodiversity Unit, while Table 7-14 outlines the Biodiversity Units of Habitat Creation. Table 7-15 details the Biodiversity Units of Habitat Restoration, and Table 7-16 presents the findings on overall net alteration or gain.

During field studies, the project area was observed to be under anthropogenic influence. Therefore, the baseline condition of the project area has been assessed as 'moderate (2)' in Table 7-13.

Within the scope of the high-level assessment, habitats without measurable alteration were not quantified in Table 7-12. However, due to the project footprint, a quantifiable alteration was identified in the H3.6 habitat. Nonetheless, habitat alteration was prevented in areas where *Verbascum hasbenlii* individuals were present, and no activities were conducted in these locations.

The amount of habitat lost due to site roads, turbine footprints, ETL and switchyard area are given in Table 7-7 through Table 7-11. A total habitat alteration provided in Table 7-12.

Table 7-7: Habitat Alteration on Access Road

EUNIS	Area (ha)
G3.F Highly artificial coniferous plantations	0.4635
I1.1 Intensive unmixed crops	0.5136
Total	0.9771

Table 7-8: Habitat Alteration on Site Roads

EUNIS	Area (ha)
G1.7 Termophilus deciduous woodland	5.25
G3.5 Pinus nigra Woodland	3.36
G3.F Highly artificial coniferous plantations	7.33
H3.6 Weathered rock and outcrop habitats	0.26
I1.1 Intensive unmixed crops	0.00
Total	16.20

Table 7-9: Habitat Alteration on Turbine Footprint

EUNIS	Area (ha)
G1.7 Termophilus deciduous woodland	4.86
G3.5 Pinus nigra Woodland	3.57
G3.F Highly artificial coniferous plantations	6.72
H3.6 Weathered rock and outcrop habitats	0.00

I1.1 Intensive unmixed crops	0.00
Total	15.15

Table 7-10: Habitat Alteration on Switchyard Area

EUNIS	Area
G1.7 Termophilus deciduous woodland	0.00
G3.5 Pinus nigra Woodland	0.00
G3.F Highly artificial coniferous plantations	1.20
H3.6 Weathered rock and outcrop habitats	0.00
I1.1 Intensive unmixed crops	0.00
Total	1.20

Table 7-11: Habitat Alteration on ETL

EUNIS	Area (ha)
G3.F Highly artificial coniferous plantations	10.64516
G3.5 Pinus nigra Woodland	12.24407
G1.7 Termophilus deciduous woodland	16.59291
G1.3 Mediterranean riparian woodland	4.696314
Total	44.17846

Table 7-12: Total Habitat Alteration

EUNIS	Area (ha)
G1.3 Mediterranean riparian woodland	4.696314
G1.7 Termophilus deciduous woodland	26.70291
G3.5 Pinus nigra Woodland	19.17407
G3.7 Pinus brutia woodland (Lowland to montane Mediterranean Pinus woodland (excluding Pinus nigra))	0
G3.F Highly artificial coniferous plantations	26.35866
F5.2 Maquis	0
H3.6 Weathered rock and outcrop habitats	0.5136
I1.1 Intensive unmixed crops	0
I1.3 Arable land with unmixed crops grown by low-intensity agricultural methods	0
I2.2 Small-scale ornamental and domestic garden areas	0
TOTAL	77.70555

EUNIS Code	Habitat Type	Area (ha)	Distinctiveness	Condition	Strategic Significance	Biodiversity Units for Baseline
G1.3	Mediterranean riparian woodland	4.696314	6	2	1.1	61.9913448
G1.7	Termophilus deciduous woodland	26.70291	4	2	1.1	234.985608
G3.5	Pinus nigra Woodland	19.17407	6	2	1.1	253.097724
G3.F	Highly artificial coniferous plantations	26.35866	2	2	1	105.43464
H3.6	Weathered rock and outcrop habitats	0.26	6	2	1.15	3.588
l1.1	Intensive unmixed crops	0.5136	2	1	1	1.0272
Total		77.705554				660.1245168

The Baseline Biodiversity Unit calculated following the project's habitat alteration assessment is 660.1245168. All planned habitat creation and restoration activities aim to achieve No Net Loss (NNL) for this biodiversity unit.

Table 7-14: Biodiversity Units of Habitat Creation

EUNIS Code	Habitat Type	Area (ha)	Distinctiveness	Condition	Strategic Significance	Difficulty Risk Factor	Time to Target Condition	Spatial Risk	Biodiversity Units of Habitat Creation
G1.3	Mediterranean riparian woodland	0	6	3	1.1	1	0.837	0.75	0
G1.7	Termophilus deciduous woodland	0	4	3	1.1	1	0.7	0.75	0
G3.5	Pinus nigra Woodland	0	6	3	1.1	1	0.7	0.75	0
G3.F	Highly artificial coniferous plantations ⁵	0	2	3	1.1	1	0.7	0.75	0
H3.6	Weathered rock and outcrop habitats	0	6	3	1.15	0.33	0.837	0.75	0
11.1	Intensive unmixed crops	0	2	1	1	1	1	0.75	0
Total		0							0

As the habitat units to be gained through restoration efforts are expected to meet the No Net Loss requirement, no habitat creation activities have been planned. Therefore, the area designated for creation is reported as zero hectares in Table 7-14.

⁵ Afforestation and habitat creation activities are carried out by the General Directorate of Forestry (GDF), with the established areas remaining under its supervision. In these efforts, artificial coniferous plantations have been implemented in place of native Pinus nigra woodland. Information on tree planting activities provided by the General Directorate of Forestry (OGM) is presented in Table 7-17. In 2023, 54,000 trees were planted across 24 hectares, and in 2024, 60,000 trees were planted over 40 hectares.

Table 7-15: Biodiversity Units of Habitat Restoration⁶

EUNIS Code	Habitat Type	Area (ha)	Distinctiveness	Condition	Strategic Significance	Difficulty Risk Factor	Time to Target Condition	Spatial Risk	Biodiversity Units of Habitat Restoration
G1.3	Mediterranean riparian woodland	4.696314	6	3	1.1	1	0.837	0.75	65.95104195
G1.7	Termophilus deciduous woodland	26.70291	4	3	1.1	1	0.7	0.75	237.9229281
G3.5	Pinus nigra Woodland	19.17407	6	3	1.1	1	0.7	0.75	256.2614456
G3.F	Highly artificial coniferous plantations	26.35866	2	3	1.1	1	0.7	0.75	117.4278303
H3.6	Weathered rock and outcrop habitats	0.26	6	3	1.15	0.33	0.837	0.75	3.062640555
11.1	Intensive unmixed crops	0.5136	2	1	1	1	1	0.75	0.7704
Total		77.705554							681.3962865

When calculating the restoration habitats and areas, the baseline habitats and their respective areas were taken as a reference, with the assumption that these restoration efforts would occur within the Area of Influence. However, all offset activities, will be comprehensively outlined in the Biodiversity Offset Management Plan (BOMP).

⁶ For the calculations in the habitat restoration table to be valid, all included habitats must be located within the Area of Influence. If these habitats fall outside the Area of Influence, baseline biodiversity unit calculations will also be required for the newly identified areas. The methodology provided in Section 7.1 should be used for these calculations.

Table 7-16: Biodiversity Net Gain / Loss Units

EUNIS Code	Habitat Type	Biodiversity Units of Habitat Restoration	Biodiversity Units of Habitat Creation	Biodiversity Units for Baseline	Biodiversity Gain/Loss
G1.3	Mediterranean riparian woodland	65.95104195	0	61.9913448	3.959697149
G1.7	Termophilus deciduous woodland	237.9229281	0	234.985608	2.9373201
G3.5	Pinus nigra Woodland	256.2614456	0	253.097724	3.16372155
G3.F	Highly artificial coniferous plantations	117.4278303	0	105.43464	11.9931903
H3.6	Weathered rock and outcrop habitats	3.062640555	0	3.588	-0.525359445
11.1	Intensive unmixed crops	0.7704	0	1.0272	-0.2568
Total		681.3962865	0	660.1245168	21.27176965

All offset activities, including the selection of suitable sites for habitat creation, restoration methods, implementation schedules, and monitoring protocols, will be thoroughly detailed in the BOMP, and the data presented in Table 7-16 may be subject to change accordingly.

7.3 Discussion

The Project commits to achieving "No Net Loss" of natural habitats and in this context, biodiversity units have been calculated as conservative approach to establish a baseline for natural habitat losses/alterations. To address the residual impact, the Project Company will implement biodiversity offset measures. These will include off-site restoration of existing natural habitats, the creation of new habitat areas, or a combination of both, as appropriate. Sitespecific strategies will be determined in accordance with ecological conditions and identified impacts. All offset activities, including the selection of sites, restoration techniques, implementation schedule, and monitoring framework, will be detailed in a Biodiversity Offset Management Plan (BOMP).

In this context, the conservative approach and the compensation effort to be applied are summarized in this section.

According to the baseline studies of the project area, the biodiversity unit has been determined as 660.1245168 units. The Baseline biodiversity Units have been calculated based on the values provided in Table 7-13. In order to achieve No Net Loss within the scope of the project, it is necessary to restore a unit of biodiversity equivalent to the one determined for the project.

It is recommended that areas of the same habitat type and equivalent size as those identified as altered in Table 7-12 be restored within the Area of Influence. The Biodiversity Units for these habitat restoration activities have been calculated based on the values in Table 7-15. If restoration is implemented as proposed, a total of 678.560994 biodiversity units will be gained. As demonstrated in Table 7-16, no additional habitat creation activities are required, given that 21.31767715 biodiversity units have already been secured.

Under the habitat creation efforts, the habitats to be created should be selected from those listed in Table 7-14. The hectares of the selected and created habitats should be calculated based on the values provided in Table 7-14.

However, if the hectares of the habitat types experiencing habitat alteration, as outlined in Table 7-12, are not restored in the same manner, no biodiversity units will be gained. As a result, creation efforts will be required to address the 660.1245168 biodiversity units. After the restoration works and afforestation studies, the Project Company will reveal how much of the units given in this approach have been provided and accordingly will develop an offset plan to compensate for the remaining residual effect.

For example: achieve No Net Loss within the overall project area influence, the number of hectares requiring creation in the G3.5 *Pinus nigra* woodland habitats with similar criteria in the project area 63,55 hectares.

Furthermore, the H3.6 Weathered Rock and Outcrop habitat hosts the critical species *Verbascum hasbenlii*. The turbine areas, access roads or ETL route do not contain suitable habitat for the species and therefore there will be no habitat alteration for this species due to Project activities. It is considered that the most important impact that the Project Company must manage during the construction phase is the dust impact. DKMP (Nature Conservation and National Parks) did not approve the collection of seeds of the species by the Project Company, however, it should be continued to consult on targets to ensure net gain based on critical habitat trigger flora species. All activities related to *Verbascum hasbenlii* must be carried out under the supervision of the DKMP, which emphasizes the significance of conservation 0, achieving a net gain requires the acquisition of at least 10% more habitat units than the baseline condition. In order to ensure the net gain, 10% of the H3.6 area should be restored. Therefore, 10% of the

0.26 hectares identified in the baseline studies, which amounts to 0.286 hectares, should be restored within the H3.6 habitat.

For all areas exhibiting forest characteristics, it is necessary to obtain permission from the General Directorate of Forestry (GDF) for any activities to be carried out. Additionally, forestry operations such as tree planting or tree cutting in these areas are organized and implemented by the GDF.

The project proponent has made a payment to the General Directorate of Forestry for tree planting activities. Compensation for impacts on forested areas will be addressed through this mechanism, and the extent of the area where replanting has been or will be conducted must be clearly detailed within the Offset Management Plan.

Pursuant to agreements with the General Directorate of Forestry (GDF), details of the tree planting activities undertaken on behalf of Enerjisa within the Çanakkale province are presented in Table 7-17. As these activities are fully implemented under the oversight of GDF, the associated data have not been incorporated into the Habitat Unit calculations within the BMP.

Year	Province	District	Village	Area (ha)	Number of Saplings Planted	Species
2023	Çanakkale	Çan	Hurmaköy	24	54000	Pinus brutia and Cupressus Sp.
2024	Çanakkale	Yenice	Engeci	40	60000	Pinus brutia and Cupressus Sp

Table 7-17: Tree Planting Data by the GDF

8 Roles and Responsibilities

Roles	Responsibilities
Project Company, Project Manager	 Overall responsibility for biodiversity performance of Project including subcontractors
(Project-level)	Ensure that the BMP and related plans are integrated into operation activities.
	 Ensure sufficient and qualified resources are provided for implementation of this BMP
	 Design specific personnel on site or at the administrative level, clearly define their roles and responsibilities
	• Ensure the BMP is distributed to all relevant personnel, visitors, and subcontractors
Project Company E&S Compliance Manager	 Having overall responsibility for the implementation of this BMP by fulfilling the Project requirements
(Company-level)	 Determining necessary resources for proper implementation of this BMP and reporting them to the Project Manager
	Monitoring of key performance indicators
	 Ensuring coordination between the Project Company Environmental Specialist (Project level) and the Project Company, Biodiversity Specialist (Corporate level)
	 Investigating non-compliances of BMP by all employees work within the Environmental and Social Site Team and contractors
Project Company, Biodiversity Specialist	 Planning, implementation, and follow-up of the BMP and if it is necessary, its complementary plans and procedures
(Corporate level) /	 Ensure that action/measures and monitoring activities are carried out timely and adequately according to the BMP requirements
	Ensure the BMP is implemented by all personnel and subcontractors
	Review and update the BMP as required
	Oversee compliance through the landscape monitoring program
	 Call in specialists to consult on special problems or to conduct third-party audits as needed during all phases of the Project
	 Prepare training manuals during relevant Project phase and conduct internal audits and record identified incompliances
	 Ensure related trainings are provided to personnel and subcontractors
	 Develop necessary monitoring and reporting forms and establish appropriate document control procedures. Collecting, organizing and reviewing monitoring data and monitoring reports from the specialized contractor(s) and providing summary results of such reports to stakeholders and to the Lenders.
	 Review the outcomes of the biodiversity monitoring program against the requirements of national regulations and international standards. If non- compliances against the requirements are detected, investigate the non-compliance and ensure that immediate corrective actions are taken.
	 May propose changes and integrations to the mitigation and monitoring activities proposed in the BMP, the proposed changes could be evaluated and approved
	 Will manage the actions related to NNL/NG processes and manage the creation of the necessary BAP and Offset Management Plan in line with the this plan and related documents such as CHA and PCFM.
External Biologist (Subcontractor)	 Carrying out and supporting the management activities outlined in this plan and providing results.
	• Implementing project-specific methodologies prior to monitoring activities specified in this report.
	 Carrying out the Project monitoring activities and reporting in line with the guidelines specified in this BMP
	Informing on-site personnels about important habitat and species.
	Providing related trainings to personnel and subcontractors
All Project personnel ncluding Subcontractors	 Understand the biodiversity management requirements associated with their work and comply with this plan in the course of their duties

9 Training Requirements

The Project Company is responsible for ensuring that all the Project personnel and subcontractors are knowledgeable about the biodiversity values and conservation priorities. As part of this effort, the Project staff members are required to undergo training that covers various aspects of BMP implementation, site-specific measures, compliance with environmental plans, the Project standards, and protocols based on their specific roles.

A general framework for a training on biodiversity will include the following elements:

- Introduction to Biodiversity: Construction workers need to have a basic understanding of biodiversity and its importance in construction projects. An overview of what biodiversity is and its importance for ecosystems and human well-being are provided in training materials.
- **Policies:** Training will cover legal requirements and policies related to biodiversity conservation specific to the location and project type.
- **Biodiversity Values and Conservation Priorities:** Presenting the distinct biodiversity attributes and conservation priorities within the Project area involves critical species, habitats, and ecological processes. Additionally, it will be considered general insights into habitats and species of significant conservation interest, along with relevant visual representations (Protected areas, forests, flora species, nests, raptors, migratory species etc).
- **Roles and Responsibilities:** Clarifying the roles and responsibilities and strong emphasis on adhering to this BMP and other environmental strategies.
- **Site-specific Measures:** Detailing the specific measures that need to be taken at the Project site to minimize impacts on biodiversity, such as habitat restoration, protected species management, invasive species control, and shutdown on demand implementation. Methods to be followed in responding incidents related to biodiversity features (collision, electrocution, invasive management etc).
- Environmental Plans, Standards, and Protocols: Introducing participants to the environmental plans, project standards, and protocols related to biodiversity conservation, emphasizing their significance and the necessity of adherence
- **Case Studies and Best Practices:** Sharing case studies and best practices from similar Projects or industries to illustrate successful approaches to biodiversity conservation and to inspire participants.
- **Monitoring and Reporting**: Providing guidance on the monitoring and reporting requirements related to biodiversity, including data collection methods, record-keeping, and reporting protocols.
- **Q&A and Discussion:** Allowing participants to ask questions, seek clarifications, and engage in discussions to enhance their understanding of the training content.
- Evaluation and Assessment: Conducting evaluations or assessments to gauge participants' comprehension of the training material and identify areas for improvement.
- **Refresher Training:** Highlighting the importance of regular refresher training sessions to ensure ongoing awareness and compliance with biodiversity conservation measures. It's important to note that the specific content and structure of the training may vary depending on the Project's context, local regulations, and specific biodiversity considerations.

