



MacArthur
Green

Torfichen Wind Farm

**Outline Species Protection
Plan**

Appendix 8.5

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1 INTRODUCTION

MacArthur Green has prepared this outline Species Protection Plan (SPP) on behalf of Renewable Energy Systems Ltd. (the Applicant) to ensure all reasonable protection measures are undertaken with regard to protected species present, or potentially present, at Torfichen Wind Farm (hereafter referred to as the 'site').

Prior to construction, the Principal Contractor will develop this outline SPP, based on updated surveys and working methods, to produce the SPP. The SPP is to be implemented during the construction and decommissioning phases of the site, although it can also be used for guidance should the need arise for maintenance during the operational period.

The SPP will ensure the adequate preservation of protected species interests into all construction and decommissioning activities within the site to safeguard the resident populations and ensure compliance with the relevant nature conservation legislation (see **ANNEX A**).

The SPP will be a live document subject to review and updating, and will assist the relevant staff in the protection of species during construction and decommission, under the guidance of the Ecological Clerks of Works (ECoW).

2 BACKGROUND INFORMATION

Baseline habitats and protected species surveys, including associated desk-based assessments, have been undertaken to inform the Environmental Impact Assessment (EIA) Report for the site. Full details and results are reported within **Appendix 8.1**, **Appendix 8.2**, **Appendix 8.3** and **Appendix 8.4**. The SPP is designed to reflect the results of the surveys and the distinct ecology and distributions of protected species within the site.

Baseline field surveys recorded the presence of the following protected or notable species within, or in the vicinity of, the site:

- otter (*Lutra lutra*);
- badger (*Meles meles*);
- squirrel spp. ;
- brown hare (*Lepus europaeus*);
- common lizard (*Zootoca vivipara*);
- bats: common pipistrelle (*Pipistrellus pipistrellus*); soprano pipistrelle (*Pipistrellus pygmaeus*); Nathusius' pipistrelle (*Pipistrellus nathusii*); Nyctalus bat spp.; Natterer's bat (*Myotis nattereri*); brown long-eared bat (*Plecotus auritus*); and Daubenton's bat (*Myotis daubentonii*); and
- brown trout (*Salmo trutta*).

No other protected species, or protected plant species, were recorded within the site during baseline surveys. Some suitable habitat was recorded on site for pine marten (*Martes martes*), but this was limited in extent and no signs were identified. A Habitat Suitability Index Assessment was carried out on the one waterbody within 500 m of the Proposed Development; the waterbody was found to offer 'Poor' habitat for great crested newt (*Triturus cristatus*). Habitat on site was

considered unsuitable for beaver (*Castor fiber*) and wildcat (*Felis silvestris*); see **Appendix 8.2** for further details. The desk-based assessment also identified the potential presence of mountain hare and water vole in the vicinity.

With respect to protected features, three main badger setts and four other setts were recorded in the survey area (**Appendix 8.2**, Confidential Annex E); one non-main sett falls within 100 m of the proposed borrow pit search area (approximately 93 m). Several features (trees and buildings) with suitability for roosting bats were recorded during surveys; see **Appendix 8.3** for full details. No potential roosts of high importance (that could support maternity roosts or significant hibernation sites) were recorded within 200 m plus rotor radius of turbines. No potential roosts were recorded within 30 m of proposed infrastructure.

3 AIMS & OBJECTIVES OF THE SPECIES PROTECTION PLAN

The Aim of the SPP is to ensure all reasonable precautions are taken by the Applicant and their contractors to safeguard protected species from disturbance, injury and death and to protect any structure or place, which any such protected species uses for growth, breeding, resting, shelter or protection during the construction and decommission of the Proposed Development.

The Aim of the SPP will be fulfilled by the Applicant adopting the following objectives throughout the construction and decommission of the site:

- a) Objective A – Implement a monitoring and protection plan for protected species;
- b) Objective B – Follow an approved procedure if an active feature is found; and
- c) Objective C – Ensure adequate education and awareness of site personnel.

Objective A addresses the monitoring procedure to be followed to ensure that the Aim of this SPP is achieved. Objective B covers the detailed procedure in the event of a protected species feature being discovered. Objective C addresses the educational needs of appropriate personnel on the site to further reduce the risk of an offence being committed. The procedures to be adopted that will fulfil these objectives are detailed in Section 6 below.

4 RESPONSIBILITIES

The overall responsibility for ensuring that the planning conditions and the conditions of any licence granted are adhered to, in particular those conditions relating to protected species, will lie with the Applicant. The personnel responsible for the day-to-day implementation of the SPP are detailed in **Table 4-1** below.

4.1 Role of the Ecological Clerks of Works

The ECoW will have the specific remit of monitoring compliance with the SPP during the construction and decommissioning phases and reporting any breaches to the Applicant's Construction Project Management Team. The ECoW's role shall involve direct monitoring of all activities in the site to the extent the ECoW considers this to be required, and/or training of nominated personnel to carry these out in a manner likely to minimise the potential for impact on the protected species. The ECoW will also agree changes to construction operations to prevent breaches of the SPP.

Table 4-1: SPP Responsibilities

Task	Responsibility
Implementation of the SPP	The Applicant's Construction Project Management Team
Monitoring and review of the SPP	ECoW
Regular site monitoring for protected species and associated protected features for: badger, bats, mountain hare, otter, pine marten, red squirrel, reptiles, and water vole, and plants listed on Annex II of the Habitats Directive	ECoW or a suitably qualified ecological surveyor
On-going watching brief for the above	All site personnel

5 THE POTENTIAL IMPACTS OF DEVELOPMENT

Impacts on protected species can result from the physical effects of construction such as soil stripping, road laying, turbine foundation construction and noise disturbance. These operations can negatively affect protected species in a number of ways including:

- abandonment of a holt/burrow/roost/den/sett/pond etc. due to disturbance;
- abandonment of dependant young due to disturbance;
- damage to or destruction of a protected feature or species;
- damage to navigation/commuting routes (i.e. ditches, burns, fence lines etc.);
- fragmentation of territories;
- damage to foraging areas (e.g. areas containing amphibians or fish in the case of otter);
- contamination of water;
- disturbance to a protected species that results in behaviour that negatively impacts their life stage; and
- accidental injury or death to species by machinery, tools or vehicles.

6 SPECIES PROTECTION PROCEDURES

This section details the procedures to be followed to ensure all reasonable precautions have been adopted to protect species from disturbance, injury and death and to protect any structure or place that any such species uses for growth, breeding, resting, shelter or protection.

The extent of disturbance free zones for each species is shown on

Table 6-1 below. If other protected species are identified during pre-construction surveys or during construction suitable buffer zones will be advised by the ECoW and agreed in consultation with NatureScot.

Table 6-1: Level of Protection and Recommended Disturbance Free Zones

Species Feature	Level of Protection	Disturbance Free Zone
Otter (holts, couches)	European	30/200 metres ¹
Bat (roost)	European	30/200+ metres ²
Badger (sett)	National	30/100 metres ³
Water vole (burrow)	National	5-10 metres ⁴
Red squirrel (drey)	National	5/50 metres ⁵
Pine marten (den)	National	30/100 metres ⁶
Reptiles (hibernacula)	National	n/a ⁷

6.1 Objective A – Monitoring and Protection Plan

6.1.1 Monitoring Plan

It will be the duty of the ECoW to check the status of the protected species and any associated protected features immediately prior to construction activity progressing across the site, and to continue regular spot checks during construction for any new protected species features in the vicinity of the construction works. Where construction work is staggered across the site, any watercourses within the vicinity of the works due to be carried out should be monitored and checked immediately prior to the commencement of works. This should occur during each phase of construction.

If it is not possible to determine the status of features during ECoW checks, further monitoring by use of camera traps may be required.

¹ The disturbance zone will be 30 m unless a breeding/natal holt is identified (or status of the holt is unknown), in such an instance the disturbance zone will be increased to 200 m.

² The disturbance zone will be 30 m; however, turbines must be positioned 200 m plus turbine rotor radius from potential high importance roost sites (NatureScot *et al.*, 2021).

³ Disturbance is defined by NatureScot as any new procedure that approaches within a minimum of 30 m of a sett margin. For piling or blasting activities, this buffer zone is extended to 100 m.

⁴ Dependant on burrow location and bank profile.

⁵ The disturbance zone will be 5 m or one tree's distance (whichever is less) unless a breeding drey is identified, in such instances the disturbance zone will be increased to 50 m during the red squirrel breeding season (February to September inclusive) (SNH, 2020).

⁶ 100 m applied if breeding.

⁷ Due to the more limited nature of their protection and their ability to avoid machinery etc. during their active phase, no specified disturbance zone for reptiles is given; however, if a hibernacula is discovered, an appropriate disturbance exclusion zone will be demarcated.

The results from the ecological baseline surveys highlighted seven badger setts and numerous features with potential to support roosting bats within the site. A number of features that would be suitable as reptile hibernacula were also recorded within the site. No other active protected species' features were recorded within the site; however, there is the potential for other protected species to move into the area. Guidelines detailing the monitoring of protected species and associated protected features by the ECoW or suitably qualified ecological surveyor are described below.

Potential Features

- European Protected Species – fauna (otters and bats) and Nationally Protected Species (badger, mountain hare, pine marten, red squirrel, reptiles and water vole):

Further checks of the potential features will be completed during construction and all potential protection features will be clearly demarcated.

- i. If the status of the potential protected feature remains unoccupied, construction may occur in the area, but not damaging the potential feature under close supervision by the ECoW⁸; or
- ii. If the status of the feature changes to occupied, then the under-noted procedure for occupied sites will be followed. The ECoW will be responsible for this survey work as required.

Occupied Features and Habitats of Importance

a) European Protected Species - fauna (otters and bats):

Where an occupied feature exists within the site or disturbance free zone, and the infrastructure cannot be microsited away:

- i. A licence to disturb will be applied for to NatureScot; or
- ii. A licence to damage or destroy will be applied for to NatureScot if there are no reasonable alternatives.

(b) National Protected Species (badger, mountain hare, pine marten, red squirrel, reptiles, water vole):

- Where an active badger sett, red squirrel drey, pine marten den, or water vole burrow exists within the site or disturbance free zone, and the infrastructure cannot be microsited away, the Applicant will discuss any licensing requirements and appropriate mitigation with NatureScot.
- Where reptiles are found to be occupying any potential hibernacula during their hibernation period and the infrastructure cannot be microsited away, the Applicant will

⁸ If the infrastructure cannot be microsited away from the potential feature, the monitoring and checks by the ECoW will be used to assess the likelihood of current use, with appropriate species-specific monitoring undertaken as required. For badger, if it is proven the potential feature is not in use, or has not been in recent use, then it would not be considered a protected feature, and could be sensitively destroyed under supervision of the ECoW.

discuss appropriate mitigation with NatureScot. Reptiles are capable of actively avoiding disturbances during their active phase.

- Any initial groundworks or vehicular activity over uncleared ground during the mountain hares' breeding season (March to October inclusive) must be preceded by a sweep survey for young hares in line with NatureScot guidance⁹. This pre-construction search must take place in all areas that will be affected by earth-moving/ground clearance operations and must be undertaken immediately ahead of the machinery coming on site. There must be no delay between the search and any subsequent works or vehicular activity.

6.1.2 Protection Plan - General

In addition to the mitigation measures detailed above, further general site-wide steps should be implemented to increase the protection levels on protected species and reduce general disturbance from the Proposed Development:

- i. Covering/securing all excavations and piping. If this is not possible then a means of escape must be provided for any animal that could fall in e.g., a ramp with a gradient of 45° or shallower.
- ii. Any temporarily exposed open pipe system should be capped in such a way as to prevent mammals gaining access, as may happen when contractors are offsite. If such pipes are left for an extended time, periodic checks will be carried out to ensure that the pipe is inaccessible to animals.
- iii. All excavations will be checked at the start of works and prior to the commencement of any works activities to ensure otters and badgers are not present or have become trapped overnight.
- iv. Night-time working will be minimised to reduce disturbance to nocturnal and crepuscular fauna. Where this is not possible, security lighting used in the site compound and those areas where lighting is absolutely necessary to ensure safe working conditions will be angled downwards to reduce light spillage into adjacent areas. Lighting outwith the site compound will be switched off when no works are being undertaken. Other required lighting will be directed to where it is needed and away from features (including setts, treelines, watercourses/riparian habitats, mammal paths, etc.) to minimise light disturbance.
- v. Works in the vicinity of watercourses (within 50 m) which are frequently used by otter should commence one hour after sunrise and should cease no later than one hour before sunset.
- vi. All works undertaken in proximity to watercourses will be undertaken in line with pollution prevention measures outlined in a detailed Construction Environment Management Plan (CEMP).
- vii. An appropriate speed limit (of around 15 to 20 mph) for all vehicles on the site, and vehicle movements will be kept to pre-determined routes wherever possible.

⁹ Available online: <https://www.nature.scot/doc/standing-advice-planning-consultations-mountain-hare>.

- viii. Watercourse crossings will be designed to allow the passage of small mammals on the site, where appropriate.
- ix. Vegetation within 50 m of all watercourses should be left undisturbed except in areas of construction of watercourse crossings and access roads leading to crossings as well as construction associated activities (such as drainage and mitigation).
- x. Chemicals should not be stored within 100 m of a sett, or within 10 m of hibernacula, or other protected feature, or along mammal paths. All paints, chemicals and sealants used during the construction process will be removed from the working area at the end of each working day. Open tins or other containers will not be left at the works areas but will be stored in a suitable container at the site compound.
- xi. Any areas for location of turbines and other infrastructure will be subject to inspection by an experienced ecologist prior to any works within these areas. The ECoW will monitor the site so that *in-situ* materials associated with works will not incidentally create reptile refuges, e.g., piles of cut vegetation. Materials will be removed from site if advised by the ECoW.

6.2 Objective B – Procedure if Active Feature is Found

6.2.1 Procedure if previously unrecorded active feature or protected species found in advance of construction or decommissioning activity

If an active feature or protected species is found by the ECoW's monitoring in advance of construction activity progressing across the site, the following text outlines the procedure to be followed.

If Obstruction, Damage or Destruction (ODD) to a protected species is likely, a location specific ODD risk assessment will be completed. This will consider all potential mitigation measures to avoid ODD. This may include micrositing of infrastructure away from the location, where topography allows and out-with the disturbance zone and the demarcation of the protected site.

If Disturbance is likely, a location specific Disturbance Risk Assessment will be completed. This should firstly consider revision to the disturbance zone as a result of the site-specific topography and habitat quality (e.g., if a ridge lies between activity and a holt then the disturbance zone may be reduced). Also, other measures which could reduce disturbance to an acceptable level should be considered (including micrositing and the demarcation of the protected site).

The Disturbance or ODD risk assessments will be submitted to NatureScot for consideration.

If it is not possible to microsite and, in consideration of the risk assessment, NatureScot determines that ODD and/or significant levels of Disturbance is likely to occur, the procedures described in Objective A will be adopted for unoccupied and occupied features. If there is uncertainty over whether the feature is occupied, a precautionary approach will be adopted, and occupancy will be assumed.

6.2.2 Procedure if previously unrecorded protected feature or protected species found during construction by site personnel

In the event of any site personnel discovering an unrecorded protected feature or protected species, the following procedure must be followed:

- a) Work should stop immediately within the specified disturbance zone;
- b) The ECoW should be contacted;
- c) The location should be checked by the ECoW to determine the nature of the new find; and
- d) If the protected species or feature is confirmed, then the procedure detailed in Objective A above should be followed.

6.3 Objective C – Education and Awareness

The Applicant will provide the necessary education and awareness as part of a site induction to all site personnel with regard to the protection of protected species that are or could be present on the site, in particular the actions that should be taken if protected species are seen on the site. All site personnel (including contractors and sub-contractors) will be informed of the objectives of the SPP to ensure they are aware of any species present in the site.

This information will include as a minimum:

- i. The requirements and use of the SPP;
- ii. Identification of protected species and features;
- iii. Key risk activities and sensitive areas; and
- iv. Site personnel responsible for dealing with protected species.

The Applicant will undertake that any person found on the site by them to be inadequately trained, or to be disregarding the terms of the SPP is immediately expelled from the site until such time that it is appropriate for them to be allowed to return. In general, such persons will need to undertake retraining in the use and application of the SPP to ensure the impact on protected species is minimised. Species specific Toolbox Talk handouts will be provided by the ECoW as required.

7 REFERENCES AND RELEVANT LEGISLATION AND GUIDANCE

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ANNEX A. LEGAL PROTECTION

A full list of protected species and the associated legislation can be found on the NatureScot website¹⁰. The following provides a summary of legal protection; the actual legislation should be consulted for the definitive list of offences.

Bats, Otter and Great Crested Newt (GCN)

Bats, otter and **GCN** receive protection in Scotland under the Conservation (Natural Habitats, &c.) Regulations (1994) (as amended) (the “Habitats Regulations”), being classified as European protected species of animals¹¹.

For European protected species, NatureScot guidance¹² sets out that it is an offence to deliberately or recklessly:

- capture, injure or kill an animal;
- harass an animal or group of animals;
- disturb an animal while it is occupying a structure or place used for shelter or protection;
- disturb an animal while it is rearing or otherwise caring for its young;
- obstruct access to a breeding site or resting place, or otherwise deny an animal use of a breeding site or resting place;
- disturb an animal in a manner or in circumstances likely to significantly affect the local distribution or abundance of the species;
- disturb an animal in a manner or in circumstances likely to impair its ability to survive, breed or reproduce, or rear or otherwise care for its young;
- disturb an animal while it is migrating or hibernating;
- take or destroy an animal’s eggs; or
- damage or destroy a breeding site or resting place of such an animal (these sites and places are protected even when the animal is not present)¹³.

Regulation 44(2)(e) of the Habitats Regulations allows a licence to be granted for activities ordinarily prohibited, where that purpose is:

“Preserving public health or public safety or other imperative reasons of overriding public interest including those of a social or economic nature and beneficial consequences of primary importance for the environment.”

¹⁰ NatureScot (2022). Table of all of Scotland’s Protected Species. Online:

<https://www.nature.scot/doc/table-all-scotlands-protected-species> [Accessed September 2023].

¹¹ Schedule 2.

¹² NatureScot. (2023). European protected species. Online: <https://www.nature.scot/professional-advice/protected-areas-and-species/protected-species/legal-framework/habitats-directive-and-habitats-regulations/european-protected> [Accessed September 2023].

¹³ Note that this is a summary of offences. Refer to Regulations 39 and 40 of the Habitats Regulations for legislative context.

Otter is also listed on Appendix I of the Convention of International Trade in Endangered Species (CITES), Appendix II of the Bern Convention, and Annexes II and IV of the Habitats Directive.¹⁴ It is also listed as globally threatened on the IUCN/WCMC Red Data List.

¹⁴ European Union Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora.

Water Vole

Water vole is protected in Scotland under Sections 9(4) and 10 of the Wildlife and Countryside Act 1981¹⁵.

Under Section 9(4)(a) and (b) of the Wildlife and Countryside Act 1981, it is an offence to intentionally or recklessly:

- damage or destroy, or obstruct access to, any structure or place which any wild animal included in Schedule 5¹⁶ uses for shelter or protection; or
- disturb any such animal while it is occupying a structure or place which it uses for that purpose.

Section 10(3)(c) provides for exceptions under Section 9, such that a person shall not be guilty of an offence where that person shows:

- that each of the conditions specified in subsection (3A) was satisfied in relation to the carrying out of the unlawful act; or
- that the unlawful act was carried out in relation to an animal bred and, at the time the act was carried out, lawfully held in captivity.

Subsection (3A) states those conditions referred to in Section 10(3)(c) are:

- a) That the unlawful act was the incidental result of a lawful operation or other activity;
- b) That the person who carried out the lawful operation or other activity:
 - i. took reasonable precautions for the purpose of avoiding carrying out the unlawful act; or
 - ii. did not foresee, and could not reasonably have foreseen, that the unlawful act would be an incidental result of the carrying out of the lawful operation or other activity; and
- c) That the person who carried out the unlawful act took, immediately upon the consequence of that act becoming apparent to the person, such steps as were reasonably practicable in the circumstances to minimise the damage or disturbance to the wild animal, or the damage or obstruction to the structure or place, in relation to which the unlawful act was carried out.

¹⁵ as amended by the Nature Conservation (Scotland) Act 2004.

¹⁶ Animals which are protected under Section 9 of the Wildlife and Countryside Act 1981.

Badger

Badger are protected in Scotland under the Protection of Badgers Act 1992 (the “Badgers Act”)¹⁷.

Under Section 1(1) of the Badgers Act, “a person is guilty of an offence if, except as permitted by or under this Act, he wilfully kills, injures or takes, or attempts to kill, injure or take, a badger.”

Where it can reasonably be concluded that a person had been attempting to kill, injure or take a badger, then it will be presumed that that person had been attempting to do so, unless it can be proven otherwise¹⁸.

Under Section 1(3), unless authorised under the Badgers Act, a person is guilty of an offence where “he has in his possession or under his control any dead badger or any part of, or anything derived from, a dead badger.”

Under Section 3(1), unless authorised under the Badgers Act, it is an offence to interfere with a badger set*. The following actions are described as interference:

- damaging a badger sett or any part of it;
- destroying a badger sett;
- obstructing access to, or any entrance of, a badger sett;
- causing a dog to enter a badger sett; or
- disturbing a badger when it is occupying a badger sett,

intending to do any of those things or being reckless as to whether his actions would have any of those consequences.

It is also an offence if a person knowingly causes or permits any of the above actions to be carried out¹⁹.

*Note: A badger sett is defined under the Badgers Act as any structure or place which displays signs of current use by a badger.²⁰

¹⁷ as amended by the Nature Conservation (Scotland) Act 2004 (as amended).

¹⁸ Section 1(2) of the Badgers Act.

¹⁹ Section 3(2).

²⁰ Section 14.

Mountain Hare, Pine Marten and Red Squirrel

Mountain hare, pine marten and red squirrel and are protected in Scotland under the Wildlife and Countryside Act 1981²¹.

Under Sections 9(1) and 9(2) of the 1981 Act, it is an offence to intentionally or recklessly kill, injure or take such an animal, or be in possession or control of such an animal (whether live or dead).²²

Under Section 9(4)(a) and (b), it is an offence to intentionally or recklessly:

- damage or destroy, or obstruct access to, any structure or place which any wild animal included in Schedule 5²³ uses for shelter or protection; or
- disturb any such animal while it is occupying a structure or place which it uses for that purpose

Further, Section 9(5) sets out that it is an offence to:

- sell, offer or expose for sale, or possess or transport for the purpose of sale, any live or dead wild animal included in Schedule 5, or any part of, or anything derived from, such an animal; or
- publish or cause to be published any advertisement likely to be understood as conveying that he buys or sells, or intends to buy or sell, any of those things.

²¹ Schedule 5.

²² See exceptions under Section 9(3).

²³ Animals which are protected under Section 9 of the Wildlife and Countryside Act 1981.

Reptiles

The three native species of **reptile** to Scotland, **adder**, **slow worm** and **viviparous lizard**, are protected under Section 9(1) (insofar as the action relates to killing or injuring the animal), and Section 9(5) of the Wildlife and Countryside Act 1981.

Under Section 9(5), it is an offence to:

- sell, offer or expose for sale, or possess or transport for the purpose of sale, any live or dead wild animal included in Schedule 5, or any part of, or anything derived from, such an animal.
- publish or cause to be published any advertisement likely to be understood as conveying that he buys or sells, or intends to buy or sell, any of those things.

Section 10(3)(c) provides for exceptions under Section 9, such that a person shall not be guilty of an offence where that person shows:

- that each of the conditions specified in subsection (3A) was satisfied in relation to the carrying out of the unlawful act; or
- that the unlawful act was carried out in relation to an animal bred and, at the time the act was carried out, lawfully held in captivity.

Subsection (3A) states those conditions referred to in Section 10(3)(c) are:

- a) That the unlawful act was the incidental result of a lawful operation or other activity;
- b) That the person who carried out the lawful operation or other activity:
 - i. took reasonable precautions for the purpose of avoiding carrying out the unlawful act; or;
 - ii. did not foresee, and could not reasonably have foreseen, that the unlawful act would be an incidental result of the carrying out of the lawful operation or other activity; and
- c) That the person who carried out the unlawful act took, immediately upon the consequence of that act becoming apparent to the person, such steps as were reasonably practicable in the circumstances to minimise the damage or disturbance to the wild animal, or the damage or obstruction to the structure or place, in relation to which the unlawful act was carried out.

Other Protected Species

Freshwater pearl mussel is listed on Annexes II and V of the Habitats Directive and are fully protected under Section 9 of the Wildlife and Countryside Act 1981. They are also listed as endangered on the IUCN/WCMC Red Data List.