

# SP MANWEB

## Reinforcement to the North Shropshire Electricity Distribution Network



Document Reference: 6.16  
Environmental Statement  
Glossary

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November 2018



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**The Planning Act 2008**

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009**

**Regulation 5(2)(a)**

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**Environmental Statement: Glossary**

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## REINFORCEMENT TO NORTH SHROPSHIRE ELECTRICITY DISTRIBUTION NETWORK

### GLOSSARY

132,000 volt	The electrical capacity of the Proposed Development. Abbreviated to 132kv
Above Ordnance Datum (AOD)	Elevation of land above sea level (at Newlyn)
Agricultural Land Classification (ALC)	The classification system used by the Department for Environment Food and Rural Affairs based on its quality and versatility. The classification ranges from Grade 1 (the best and most versatile) through Grades 2, 3a, 3b, 3c and 4, down to Grade 5 (least versatile)
Agri-environment scheme / agreement	A UK government undertaking in which farmers are paid to farm in an environmentally sensitive way
Alluvium	Material transported by rivers and deposited along its course
Air Quality Management Area (AQMA)	Declared by local authorities for areas where objectives specified in the national Air Quality Strategy are not predicted to be met
Air Quality Action Plan (AQAP)	Produced by local authorities for AQMAs, setting out measures to improve air quality
Ancient Semi-Natural Woodland (ASNW)	Woodland composed of native tree species that have not obviously been planted
Aquifer	A body of permeable rock that is capable of storing significant quantities of water; is underlain by impermeable material, and through which groundwater moves
Area of Outstanding Natural Beauty (AONB)	An area designated under the National Parks and Access to Countryside Act 1949 (as amended) for its particularly attractive landscape and unspoilt character, which should be protected and enhanced as part of the national heritage  AONBs are protected by the Countryside and Rights of Way Act 2000 (CROW Act) which also sets out the roles and responsibilities that different organisations must follow to manage AONBs.
Area of Search	The term given to a wide area within which the route corridors are identified
Baseline	Existing environmental conditions which are described in the ES
Best and most versatile (BMV)	Defined by the ALC as Grades 1, 2 and 3a.

Biodiversity	The biological diversity of the earth's living resources. The variety and abundance of species, their genetic composition, and the natural communities, ecosystems, and landscapes in which they occur
Biodiversity Action Plan (BAP)	UK and local level strategies for the conservation of biological resources, now largely succeeded by The 'UK Post-2010 Biodiversity Framework' but lists of priority species and habitats and forms the basis of much biodiversity work
British Trust for Ornithology (BTO)	An independent research institute aimed at using evidence of change in wildlife populations, particularly birds, to inform the public, opinion-formers and environmental policy- and decision-makers
Broad Route Corridor(s)	Initial strategic corridors identified for the Proposed Development (s in the Route Corridor Options Report (June 2016) ( <b>DCO Document 7.8</b> ))
Busbar	A Busbar is a metallic bar (typically made of aluminium) that conducts electricity within a substation.
Cable	An insulated conductor designed for laying underground
Cable Sealing End (CSE)	A Cable Sealing End's function is to connect a power cable to the substation network.
Circuit Breakers	A circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit. Its basic function is to interrupt current flow after a fault is detected.
Competent Authority	An organisation or individual who is responsible for determining an application for a consent for a project. In the context of the Habitats Regulations, 'competent authority' has a wider meaning, which includes any Minister, government department, public or statutory undertaker, public body of any description or person holding a public office.
Concrete Tiles	Buried tiles designed to identify and protect underground and buried power cables.
Conductor	Overhead wire(s) attached to wood poles which conduct electricity
Conservation Area	Designated by local authorities on account of their special architectural or historic interest, the character and appearance of which it is intended to preserve and enhance
Conservation status	For habitats, the elements of Conservation Status that relate to extent, structure, function, and typical species are used to provide guidance on attributes and targets. For species, the elements of population dynamics, range, habitat extent and quality are important. Important elements which define Favourable Conservation Status which need to be reflected in the assessment of feature condition, are the 'long-term maintenance' and



	'foreseeable future' criteria incorporated in Articles 1e and 1i of the Habitats Directive.
Continuous Tension Stringing Method	A method of installing conductor on overhead lines that ensures the conductor is installed in a controlled manner under continuous tension which prevents the conductor from coming in to contact with anything other than the overhead line supports.
Construction phase	Preparatory works and construction works which will take place before the Proposed Development becomes operational
Consultation Corridors	100m wide corridor(s) within which 132kV Overhead Line could be constructed and which were the subject of pre-application consultation pursuant to the Planning Act 2008
Consultation zone	A zone that encompassed likely effects (either permanent or temporary) arising from the proposals. This included potential environmental or visual impacts, but also those arising from construction or maintenance of the route. Community consultation activities are focused with in the consultation zone.
Countryside and Rights of Way Act (CROW)	The Countryside and Rights of Way Act 2000 (as amended) which provides, amongst other matters, for public access on foot to certain types of land
Cumulative Effects	The effects of other development schemes (whether under construction, consented, or there are firm proposals for) assessed cumulatively with the Proposed Development. These effects can be temporal (e.g. construction phases occur at the same time) or spatial (e.g. the same area is affected)
Decibel (dB)	The scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and a reference pressure ( $2 \times 10^{-5} \text{Pa}$ )
Department for Business, Energy and Industrial Strategy (BEIS).	Formed from the merger of the Department for Business, Innovation and Skills (BIS) and the Department of Energy and Climate Change (DECC)
Department for Communities and Local Government	The UK Government department responsible for housing, communities and local government in England. Renamed Ministry for Housing, Communities and Local Government in 2017.
Designated area	Area designated and protected by national or international law for its landscape, biodiversity, or historic interest
Development Consent Order (DCO)	An order made by the relevant Secretary of State granting development consent following the submission of an

	application made pursuant to section 37 of the Planning Act 2008 for a NSIP
Distribution Code	<p>The Distribution Code covers the technical aspects relating to the connection and use of the electricity distribution licensees' distribution networks.</p> <p>The Distribution Code specifies day-to-day procedures that govern the relationship between a distribution licensee and users of its distribution system for planning and operational purposes in normal and emergency circumstances.</p> <p>The Distribution Code is also designed to ensure that the distribution licensee can meet its Grid Code compliance obligations.</p>
Distribution Licence	A distribution licence granted under Section 6(1)(c) of the Electricity Act 1989 (as amended) .
Distribution Network Operator (DNO)	Distribution Network Operators own and operate the electricity distribution network that brings electricity from the national transmission network to the consumer. SP Manweb is the DNO for North and Mid Wales, Cheshire and Merseyside
Draft Construction Environmental Management Plan (CEMP)	Sets out the standard good practice measures that will be adopted by contractors for any construction works associated with the Proposed Development
Ducts	Underground network of pipes used to carry electrical and fibre optic cables.
Earth Mat	An earth mat is installed underground at the base of wood poles to provide an earthing system for the safe operation of the overhead line.
Easement	A right which allows another person to use your land for a specific purpose, such as installing utilities
Ecological Impact Assessment (EclA)	Ecological Impact Assessment is part of an EIA and assesses the potential effects of a development on habitats and species, particularly those protected by national and international legislation or considered to be of particular nature conservation importance
Ecological feature/receptor	An ecological feature is a living system or entity that exists because of specific limiting factors such as the soils and nutrients, availability of water, climate, etc. An ecological receptor is a feature that is sensitive to or has the potential to be affected by an impact.
ED1	RIIO-ED1 is the current price control period for DNOs

Electromagnetic Fields (EMFs)	Electric and magnetic fields generated by electricity
Electricity Act 1989	The Electricity Act 1989 (as amended)
Engineering Recommendation P2/6	The distribution network planning standard
Entry Pit	Excavation at the beginning of a horizontal directional drill route utilised to fit the drilling equipment to the drilling rig and to enable a smooth entry for the drill head into the ground.
Environment Agency	A non-departmental public body, with responsibilities relating to the protection and enhancement of the environment in England.
Environmental Impact Assessment (EIA)	A statutory process whereby a project is assessed through the collection and consideration of environmental information with the aim of taking account of the likely significant effects of the proposed development on the environment in the decision making process. The findings are published in an Environmental Statement
Environmental Statement (ES)	Report documenting the outcome of an Environmental Impact Assessment
Environmentally Sensitive Area (ESA)	An agricultural area which needs special protection because of its landscape, wildlife or historic value
European Protected Species Licences	A licence is required if work will have impacts on protected species that would otherwise be illegal
Fibre Optic	Fibre Optic cables are used for transmission of communications data over long distances and at higher bandwidths (data rates) than electrical cables.
Final Route Alignment	Indicative pole positions along the centreline of the Order Limits identified following consultation, technical and environmental appraisal
Flood Risk Assessment (FRA)	Required for developments in flood zones. It is an assessment of the potential impact of a development on flooding
Flood Zone (FZ)	Areas at risk of flooding, divided into subcategories / zones
Floodplain	The area that would naturally be affected by flooding if a river rises above its banks
Groundwater	Water flowing through or contained beneath the ground surface
Guidelines for Landscape and Visual Impact	Guidelines for Landscape and Visual Impact Assessment (Third Edition) published by the Landscape Institute and Institute of Environmental Management & Assessment (April 2013)

Assessment (GLVIA)	
Habitat Suitability Index (HSI)	A numerical index that represents the capacity of a given habitat to support a selected species. Most commonly used for pond habitats and great crested newts following a method developed by Oldham <i>et al.</i> (2000)
Habitats Directive	EC Directive on the conservation of natural habitats and of Wild Fauna and Flora (92/43/EEC)
Habitats Regulations Assessment (HRA)	Assessment undertaken of the impacts of a project on Natura 2000 sites in accordance with the requirements of The Conservation of Habitats and Species Regulations 2017
Heavy Goods Vehicle (HGV)	A goods vehicle greater than 3.5 tonnes gross weight
Hiab	Lifting equipment fitted to heavy goods vehicles.
Historic England	An executive non-departmental public body tasked with protecting the historical environment of England by preserving and listing historic buildings, ancient monuments and advising central and local government.
Historic Environment Record (HER)	A register of known archaeological sites, monuments and finds
Holford Rules	A series of planning guidelines for the routeing of overhead lines first developed in 1959 by Lord Holford, advisor to the then Central Electricity Generating Board (CEGB) on amenity issues. They were reviewed in the 1990s by National Grid and are referred to in paragraphs 2.8.5 and 2.8.6 of NPS EN-5
HDD	Horizontal Directional Drill.
Institute for Archaeologists (IfA)	The Chartered Institute for Archaeologists
Isolator	An Isolators function is to isolate the circuit after operation of a circuit breaker. An isolator is used to physically disconnect any incoming power lines to allow work on the power line to be performed safely.
Insulator	Used to safely connect the conductors to wood poles or pylons
International Commission on Non-Ionizing Radiation Protection (ICNIRP)	Provides scientific advice and guidance on the health and environmental effects of non-ionizing radiation

Joint Bay	The primary function of a cable joint bay is to provide a clean and secure environment for the assembly of cable joints and bonding.
kV	kilovolt (1000 volts)
Landscape and Visual Impact Assessment (LVIA)	Assessment methodology used to assess the potential effects of a proposed development on the landscape
Landscape Character Assessment (LCA)	A standard methodology for identifying, describing, classifying and mapping what is distinctive about our landscapes
Landscape Institute (LI)	The Chartered Institute for Landscape Architects
Light Goods Vehicle (LGV)	Goods vehicles not exceeding 3.5 tonnes gross vehicle weight
Listed Building	A building of special architectural or historic interest which has been included on a list approved by the Secretary of State under the Planning (Listed Buildings and Conservation Areas) Act 1990 (known as the 'Statutory List of Buildings of Special Architectural or Historic Interest'). Buildings are classified in grades (I, II* and II) and to show their relative importance
Local Biodiversity Action Plan (LBAP)	A set of action plans for habitats and species (see Biodiversity Action Plan).
Local Development Plan (LDP)	A statutory document which guides future development
Local Nature Reserve (LNR)	A statutory designated site with features of local nature conservation interest controlled by a local authority
Local Planning Authority	Is defined by S.1 of the Town and Country Planning Act 1990 and, in the case of the Proposed Development, is Shropshire Council
Local Wildlife Site (LWS)	Non statutory designated site identified and selected for their local nature conservation value and protected through planning policy.
Lower Super Output Areas (LSOAs)	LSOA are a set of geographic areas developed to present Census data at a set of areas of consistent size, whose boundaries would not change (unlike electoral wards). The LSOAs have been used for socio-economic baseline data collection; they typically have a population of 1,500 persons.
MVA	Mega Volt-Amps (Apparent Power)
Magnitude of potential effect	The degree of change that a receptor is anticipated to experience as a result of the Proposed Development

Megawatts	A unit of power equal to one million watts
Mitigation	Measures to avoid, reduce and offset environmental effects
National Grid Reference (NGR)	A system of grid references used in Great Britain
National Monuments Record (NMR)	Unscheduled archaeological sites and features recorded by Historic England
National Nature Reserve (NNR)	A protected area of importance for wildlife, flora, fauna reserved and managed for conservation
National Policy Statements (NPS)	Sets out national policy against which proposals for major infrastructure projects will be assessed and decided by the Secretary of State
NPS EN-1	National Policy Statements set out national policy against which proposals for major infrastructure projects will be assessed and decided by the Secretary of State. EN-1 is the Overarching National Policy Statement for Energy and was published in July 2011
NPS EN-5	National Policy Statements set out national policy against which proposals for major infrastructure projects will be assessed and decided by the Secretary of State. EN-5 is the National Policy Statement for Electricity Networks Infrastructure and was published in July 2011
National Vegetation Classification (NVC)	Classification and description of the plant communities of Great Britain
Nationally Significant Infrastructure Project (NSIP)	A project designated under the Planning Act 2008
Natura 2000 sites	A European-wide network of sites protected under the Habitats and Birds Directives, and made up of Special Areas of Conservation and Special Protection Areas; also generally considered to include internationally protected Ramsar sites
Natural England	The government's adviser for the natural environment in England, helping to protect England's nature and landscapes for people to enjoy and for the services they provide
NGET	National Grid Electricity Transmission plc
Nitrate Vulnerable Zones (NVZ)	Areas where land drains and contributes to the nitrate found in "polluted" waters

Non-statutory consultation	Consultation carried out in addition to a statutory consultation.  SP Manweb carried out non-statutory consultation between June 2016 and July 2017. It consisted of an initial period of consultation (June 2016 – September 2016) and additional engagement until July 2017.
NSP	Noise sensitive premises
Order Limits	Means the limits shown on the Works Plans within which the Proposed Development may be carried out
Overhead Line	132,000 volts overhead line from the Terminal Pole at Long Wood near Oswestry(SJ 31132 29877) to the SP Manweb Substation at Wem
Palaeo-channel	Ancient relict watercourse
Permitted Development	Part III of the Town and Country Planning Act 1990 provides that the Secretary of State may grant planning permission by way of development order. The principal development order is the Town and Country Planning (General Permitted Development) (England) Order 2015 which provides that planning permission for certain developments is granted subject to specified conditions. It provides specified permitted development rights for statutory undertakers including in relation to power related development.
PILs	Persons with an interest in the land pursuant to section 44 of the Planning Act 2008
Phase 1 habitat survey	A field survey technique to record semi-natural vegetation and other wildlife.
Photomontage	A collection of images used to create an overall image. The objective of a photomontage is to simulate the likely visual changes that would result from the Proposed Development, and to produce printed images of a size and resolution sufficient to match the perspective in the same view as would occur in reality
Planning Act 2008 (the Act)	The legislation for Nationally Significant Infrastructure Projects which set out statutory requirements for, amongst other matters, applying for and determining applications for development consent
Planning Inspectorate (PINS)	The Planning Inspectorate administers the examination of applications for development consent
Preferred Route Corridor	Is identified as the preferred route corridor for the Proposed Development and is set out in the Route Corridor Options Report (June 2016) ( <b>DCO Document 7.8</b> )
Preliminary Environmental Information	Information that is reasonably required to assess the environmental effects of the development (and of any associated development);

Preliminary Environmental Information Report (PEIR)	A report presenting the preliminary environmental information and assessment
Prescribed Consultees	Means persons to be consulted pursuant to the Planning Act 2008 and set out in Schedule 1 of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
Priority habitat or species	Identified as being the most threatened and requiring conservation action under the UK Biodiversity Action Plan (UK BAP). Statutory lists of priority species and habitats in England, are provided under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 (England).
proposed development	The term used to describe a developer’s plans for new infrastructure that have yet to receive consent.
Proposed Development	The development for which an application for an order granting development consent is being made
PRoW	Public Right of Way which is a footpath or track over which the public have a right of access
Ramsar sites	Wetlands of international importance designated under the Ramsar Convention (Convention on Wetlands of International Importance, especially as Waterfowl Habitats) (1971) and ratified in the UK in 1976).
Receive Pit	Excavation at the end of horizontal directional drill route primarily used to capture drilling fluids and debris.
Red Data book	The IUCN (International Union for Conservation of Nature) Red List of threatened bird species categorised as Extinct, Extinct in the Wild, Critically Endangered, Endangered, Vulnerable, Near Threatened or Least Concern
Registered Park and Garden (RPG)	Parks and gardens which have been classified by grade to show their relative importance: Grade I – international historic interest, Grade II* - exceptional historic interest, Grade II – national historic interest
Reinstatement	The actions undertaken to return a temporary working area to its previous condition, as far as reasonably practicable
Requirement	A requirement in Schedule 2 of the Reinforcement to the North Shropshire Electricity Distribution Network Order 20[ ]
Residual effects	Effects remaining after mitigation measures have been taken into account



Route corridor	Search area used to provide a degree of flexibility in which to develop a route alignment, usually approximately 1km wide (see Route Corridor Options Report (June 2016) ( <b>DCO Document 7.8</b> ))
Route Corridor Study (RCS)	An appraisal to identify potential route corridors within a defined study area
Royal Society for the Protection of Birds (RSPB)	Nature conservation charity engaged in managing reserves, undertaking research and working to improve the value and management of land for wildlife, with particular focus on birds.
Ruderal species	Plant species that are the first to colonise disturbed lands, often fast growing, naturalised or weedy species including nettles, bramble, thistles.
Running Blocks	A type of pulley wheel temporarily fitted to the insulators to aid with the installation of conductor.
S37, s42, s43, s44, s45 (etc.)	Refers to relevant sections of the Planning Act 2008 (as amended).
SAMDev Plan	Site Allocations and Management of Development Plan was adopted by Shropshire Council on 17 December 2015 [available online at: <a href="https://shropshire.gov.uk/planning-policy/local-planning/samdev-plan-2006-2026/the-plan/">https://shropshire.gov.uk/planning-policy/local-planning/samdev-plan-2006-2026/the-plan/</a> ]
Scheduled Ancient Monument	An archaeological site of national importance, which is included on a schedule compiled by the Secretary of State for National Heritage under the terms of the Ancient Monuments and Archaeological Areas Act 1979 (as amended)
Scoping	An early stage within the Environmental Impact Assessment (EIA) process where the scope of the environmental studies are determined
Scoping Opinion	A person who makes an application for an order granting development consent may ask the Secretary of State his opinion as to the information to be provided in an ES and this is known as a Scoping Opinion
Scoping Report	The scoping report prepared by SP Manweb and submitted to the Secretary of State to support its application for a Scoping Opinion
Screening	Initial process by which project proposals are assessed to decide whether they require a formal Environmental Impact Assessment
Secretary of State for Business, Energy and Industrial Strategy	Cabinet position in the UK Government that has overall responsibility for the Department for Business, Energy and Industrial Strategy (BEIS), who will ultimately determine whether development consent will be granted.

Significance	The significance of effects considers the value (or sensitivity) of the receptor and the magnitude and likelihood of potential effects
Site of Importance for Nature Conservation (SINC)	Designation used by local authorities in the United Kingdom for sites of local nature conservation value. Often also known as Local Wildlife Sites.
Site of Special Scientific Interest (SSSI)	An area of land of special interest by reason of its flora, fauna, geology or physiographical features notified under Section 28 of the Wildlife and Countryside Act 1981 (as amended)
Sites and Monuments Record (SMR)	List of known archaeological sites
Source Protection Zone (SPZ)	A zone surrounding an aquifer where the contamination of the groundwater flow due to surface spills could pollute the aquifer
SP Manweb	The DNO for Cheshire, Merseyside, North Wales and Shropshire. The promoter of the Proposed Development.
Special Area of Conservation (SAC)	Sites chosen to conserve the natural habitat types and species of wild flora and fauna listed in Annex I and II of the Habitats Directive. They are the best areas to represent the range and variety of habitats and species within the European Union.
Special Protection Area (SPA)	Area designated under Article 4 of the EC Directive on Conservation of Wild Birds (Directive 2009/147/EC) for the protection of rare or vulnerable birds (as listed on Annex I of the Directive) and for regularly occurring migratory species.
Statement of Community Consultation (SOCC)	A statement setting out how the applicant proposes to consult the local community in respect of the Proposed Development as required by section 47 of the Planning Act 2008
Statutory consultation	Community and stakeholder consultation carried out in line with the statutory requirements set out in the Planning Act 2008.
Statutory consultees	Organisations that SP Manweb is required to consult by virtue of the Planning Act 2008
Statutory undertakers	Companies with regulatory powers and duties, such as gas, electricity, water and transport providers / transmitters
Strategic Options	Initial technical options for the Proposed Development
Substation	Generated electricity is fed into the electrify distribution network through substations. Substations control the flow of power through the network by means of transformers and

	switchgear, with facilities for control, fault protection and communications
Telehandler	Telescopic Forklift.
Terminal Structure	A self-supporting structure at the end of an overhead line that can be used to transition from an overhead line to an underground cable or a substation gantry.
Tree Preservation Order (TPO)	Made by a local planning authority if it appears that it is expedient in the interests of amenity to make provision for the preservation of trees or woodlands in their area in order to protect such trees, groups of trees or woodlands as may be specified in the order
Trident wood pole	A type of support structure that typically carries 132kV electricity cables.
Undergrounding	Electricity cables laid underground
United Kingdom Biodiversity Action Plan (UKBAP)	Describes biological resources and provides detailed plans for conservation now largely superseded (see Biodiversity Action Plan)
Vantage Point (VP) Survey	A survey method designed to record flight activity of bird species
Wireframe	Computer generated line drawing based on a digital terrain model, that illustrates the three dimensional shape of the landscape and any features within it
Wood poles	Wooden poles used to support an overhead electricity line (either single or double) (see Trident wood pole)
World Health Organisation (WHO)	The United Nations public health arm
Written Scheme of Investigation (WSI)	A method statement setting out archaeological investigations
Zone of Influence (Zoi)	The areas/resources that may be affected by the biophysical changes caused by activities associated with a project
Zone of Theoretical Visibility (ZTV)	A map which illustrates the potential (or theoretical) visibility of a development