

STATEMENT OF EVIDENCE - GLOSSARY OF TERMS AND ABBREVIATIONS

24 July 2026

**THE NATIONAL GRID ELECTRICITY TRANSMISSION PLC (WEST BURTON TO
RATCLIFFE-ON-SOAR REFURBISHMENT PROJECT)
COMPULSORY PURCHASE ORDER 2026**

**STATEMENT OF EVIDENCE – GLOSSARY
OF TERMS AND ABBREVIATIONS**

DEFINED TERMS

Term	Definition
1981 Act	Acquisition of Land Act 1981
1989 Act	Electricity Act 1989
Access swathe	An area that provides appropriate access to each pylon structure, UGC section and crossing protection work area.
Angle pylon / tower	Also known as a tension tower, and is a pylon where a horizontal insulator string attaches the conductors. Tension or 'angle' pylons are used at points where the overhead line alignment changes direction.
Anti-climbing devices	Device installed to the leg of a pylon to prevent, so far as may reasonably be foreseen, any person from having access to any position which is dangerously near any such live conductor.
Arcing Horns	Arcing horns, also known as arc-horns, are protecting conductors used in high-voltage electric power transmission systems to protect insulators or switch hardware from damage during flashover events. They provide a controlled spark gap that diverts electrical arcs away from the insulator surface, allowing the discharge to occur in a designated path rather than damaging equipment. This design helps to safeguard critical components in power transmission systems from overvoltages caused by lightning strikes, switching surges, or atmospheric disturbances.
Cable	An insulated conductor designed for underground installation.
Cable sealing end	Structures used to transfer transmission circuits between underground cables and overhead lines.
Cable sealing end compound	Electrical infrastructure used as the transition point between overhead lines and underground cables. A compound on the ground acts as the principal transition point.
Cable Works	That part of the Project at the West Burton and Ratcliffe-on-Soar substations, where new underground cables and high voltage equipment will be replaced to be consistent with the uprated overhead line capacity.
Clean Power 2030	Clean Power 2030 Action Plan (Department for Energy Security and Net Zero, December 2024)
Colour Plates	A colour plate (or circuit identification plate) is a standardised plate fitted to structures in the National Grid electricity transmission network to identify circuits and provide safety information. These plates help personnel quickly recognize the type of circuit, voltage level, and operational details, which is critical for safe climbing, maintenance, and switching operations.
Compensation Code	Collective term used for the principles set out in Acts of Parliament, principally the Land Compensation Act 1961, the Compulsory Purchase Act 1965, the Land Compensation Act 1973, the Planning & Compulsory Purchase Act 1991 and the Planning & Compulsory

Term	Definition
	Purchase Act 2004. This is supplemented by case law, relating to compensation for compulsory acquisition.
Concrete Muff	A concrete muff is a protective collar or pedestal constructed around the base of a pylon leg at the point where it emerges from the ground. It is designed to shield metal components from ground-line corrosion while its sloped surface ensures that rainwater sheds away from the structure to prevent water ingress.
Conductor	The overhead wire that carries electricity from one place to another, for example the line between two pylons.
Convention	The European Convention on Human Rights
CPO Guidance	Ministry of Housing, Communities and Local Government Guidance on the Compulsory Purchase Process (June 2026)
Crossing protection	An allowance made within the Order Land where the overhead line crosses a road, railway line, utility or navigable watercourse. The allowance provides space to protect the crossing during conductor / reconductoring work. Scaffolding is one example of crossing protection; scaffolding would be placed on either side of the crossed feature with netting between the two structures to prevent the conductor falling to ground.
Downdropper	The final connection from the bottom of the downlead to the substation or other termination equipment
Downlead	The connection from the terminal tower on a circuit to the substation gantry or anchor blocks, or when an overhead line connects to an underground cable, the connection from the crossarms to the cable sealing end structure.
Earthwire	A dedicated conductor that provides a safe route for electrical fault currents to disperse into the earth. It is a crucial component in electrical systems designed to protect from electrical shocks.
Easement	A legal right in perpetuity granting National Grid the right to install, use, maintain, replace, renew and remove its equipment.
EIA Regulations	Town and Country Planning (Environmental Impact Assessment) Regulations 2017.
Enabling works	Works done ahead of the physical infrastructure works. Enabling works can include, for example: the establishment of construction compounds and access; vegetation clearance; utility mitigation; and the erection of crossing protection equipment.
Equality Act	The Equality Act 2010
Exemption Regulations	The Overhead Lines (Exemption) (England and Wales) Regulations 2009
Gantry	An overhead bridge-like structure supporting electrical equipment. A transition point from overhead line equipment to equipment in a compound.
Insulator Set	An assembly of one or more insulator strings used to attach the conductors to the pylons, preventing electrical discharge to the steelwork.
NRSA Rights	Rights under the New Roads and Street Works Act 1991

Term	Definition
OHL Swathe	An area either side of the conductor centreline, to provide a work area to enable in-line construction and maintenance of conductors with sufficient work area and access for conductors to be lowered to the ground if required.
OHL Works	That part of the Project comprising the reconductoring of the existing overhead electric lines which includes the replacement of fittings, earth wire, steelwork and tower furniture (including the replacement of Colour Plates and Arcing Horns).
Order	The National Grid Electricity Transmission (West Burton to Ratcliffe-on-Soar Refurbishment Project) Compulsory Purchase Order 2026.
Order Land	The land which is subject to compulsory purchase powers pursuant to the Order as shown on the Order Map.
Order Map	The plan which forms part of the Order, being the map referred to in the National Grid Electricity Transmission Plc (West Burton to Ratcliffe-on-Soar Refurbishment Project) Compulsory Purchase Order 2026, comprised of a key plan and sheets 1 to 56.
PD Rights	Permitted development rights under the Town and Country Planning (General Permitted Development) (England) Order 2015
Pylon	Structures that support the overhead line (conductors). Lattice pylons are the pylon type widely used on the national electricity transmission networks.
Project	The National Grid Electricity Transmission plc West Burton to Ratcliffe-on-Soar Refurbishment Project. The Project comprises the refurbishment of the existing 400kV single circuits (of which the circuit numbers are shown in brackets): West Burton to High Marnham (A403), High Marnham to Stoke Bardolph (A41E), Ratcliffe-on-Soar to Stoke Bardolph (A41F) (this aspect of the Project is referred to as the " WRRE Project ") and Cottam to Staythorpe 1 (A408, referred to as the " SCRE Project "). Together the WRRE Project and SCRE Project form the Project. The Project also includes associated works.
SCRE Project	The aspect of the Project from Cottam to Staythorpe 1 (A408).
Stringing area	Areas around pylons that allow for stringing of new conductors or reconductoring works. Stringing areas are typically bow-tie shaped areas that provide sufficient space for positioning machinery and equipment behind the pylon structure to achieve a safe pulling angle to not impose a strong downward force on the crossarms. They are of a size typically two-times the pylon height. Stringing areas are shown on appropriate angle pylon locations, as required.
Tower	Engineering term for 'pylons'.
UGC Swathe	An area for the purposes of, or incidental to, the construction, laying, placing, retention, use, operation, protection, maintenance, surveying, testing, repair,

Term	Definition
	renewal, replacement, alteration, commissioning, removal and decommissioning of underground electric cables and associated infrastructure.
Wayleave	A wayleave agreement is a contractual arrangement that allows a third party, usually a utility provider, to install, access, maintain and repair equipment such as cables, pipes or poles on land owned by someone else.
Work area	Work area refers to a temporary area around a pylon base, typically 50m x 50m. The area is required to undertake works on the tower, and allows space for vehicles, access, plant, equipment, welfare and demarcation of safe zones. Work areas typically involve trackway over all or part of the area, depending on the specific works taking place at a given location.
WRRE Project	The aspect of the Project from West Burton to High Marnham (A403), High Marnham to Stoke Bardolph (A41E), Ratcliffe-on-Soar to Stoke Bardolph (A41F).

ABBREVIATIONS

Term / Abbreviation	Definition
ASTI	Ofgem's Accelerated Strategic Transmission Investment Framework (published December 2022)
BESS	Battery Energy Storage System
CDM	Construction (Design and Management) Regulations 2015
CNP	Critical National Priority
CPO	Compulsory Purchase Order
CSS	Catenary support system: A CSS is a temporary safety and support mechanism used during the maintenance, repair, or replacement (re-conductoring) of overhead power lines. It typically consists of an independent high-strength rope tensioned between structures, from which a series of pulley blocks are suspended to carry the conductor, acting as a catch system.
DCO	Development Consent Order
DNO	Distribution Network Operator
EIA	Environmental Impact Assessment
EPC	Engineering, procurement and construction
FEED	Front- end engineering design
GDPO	The Town and Country Planning (General Permitted Development) (England) Order 2015
GEMA	Gas and Electricity Markets Authority
GGP	Great Grid Partnership
HoTs	Heads of Terms
Km	Kilometre
kV	Kilovolt
LRS	Land Rights Strategy
MoA	Memorandum of Agreement

Term / Abbreviation	Definition
MRTPI	Member of the Royal Town Planning Institute
NESO	National Energy System Operator
NGED	National Grid Electricity Distribution plc
NGET	National Grid Electricity Transmission plc
NPPF	National Planning Policy Framework (December 2024)
NPS	National Policy Statement
NPS EN-1	Overarching National Policy Statement for Energy (EN-1), 2025
NPS EN-5	National Policy Statement for Electricity Networks Infrastructure (EN-5), 2025
Ofgem	Office for Gas and Electricity Markets
OHL	Overhead Line
PLS-CADD	Power Line Systems Computer-Aided Design and Drafting
PRoW	Public right of way
RICS	Royal Institution of Chartered Surveyors
RIIO	Ofgem's regulatory framework; Revenue = Incentives + Innovation + Outputs.
TCPA	Town and Country Planning Act 1990
UGC	Underground cable