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Abbreviations

Abbreviation	Term
AC	Alternating Current
AIL	Abnormal Indivisible Loads
AOD	Above Ordnance Datum
ARC	Amphibian and Reptile Conservation
ARG UK	Amphibian and Reptile Groups of the UK
ATC	Automatic Traffic Counter
AWI	Ancient Woodland Inventory
BCT	Bat Conservation Trust
BESS	Battery Energy Storage System
bgl	Below ground level
BGS	British Geological Society
Birds Directive	Council Directive 79/409/EEC on the conservation of wild birds
BNG	Biodiversity Net Gain
BoCC5	Birds of Conservation Concern
CAR	Approval obtained from SEPA under the Water Environment (Controlled Activities) (Scotland) Regulations 2011 (as amended) (CAR) ('the CAR Regulations')
CBS	Cement Bound Sand
CCC	Climate Change Committee
CCRA	Climate Change Risk and Resilience Assessment
CCT	Coastal Character Type
CCUS	Carbon Capture Utilisation and Storage
CEMP	Construction Environment Management Plan
CES	Crown Estate Scotland
CH₄	Methane
CIEEM	Chartered Institute of Ecology and Environmental Management
CifA	Chartered Institute for Archaeologists
CIRIA	Construction Industry Research and Information Association
CO₂	Carbon Dioxide
CO₂e	Carbon Dioxide Equivalent

Abbreviation	Term
COP	Conference of parties
DBA	Desk Based Assessment
DBW	Daytime Bat Walkover
DC	Direct Current
DEFRA	Department for Environment, Food and Rural Affairs
DESNZ	Department for Energy Security and Net Zero
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
DrWPA	Drinking Water Protected Area
DTM	Digital Terrain Model
EcIA	Ecological Impact Assessment
ECU	Energy Consents Unit
eDNA	environmental DNA
EGL4	Eastern Green Link 4
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
EMF	Electric and Magnetic Fields
EU	European Union
FCLDP	Fife Council Local Development Plan
FOI	Freedom of Information [request]
FRA	Flood Risk Assessment
GBR	General Binding Rules
GDL	Garden and Designed Landscapes
GHG	Greenhouse Gas
GIS	Geographic Information System
GLTA	Ground Level Tree Assessment
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GPP	General Pollution Prevention [guidance]
GPS	Global Positioning System
GW	Gigawatt
GWDTE	Groundwater Dependent Terrestrial Ecosystems
Habitats Directive	Council Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora

Abbreviation	Term
Habitats Regulations	Conservation (Natural Habitats, &c.) Regulations 1994 (as amended)
HDD	Horizontal Directional Drilling
HEPS	Historic Environment Policy for Scotland
HER	Historic Environment Record
HES	Historic Environment Scotland
HFCs	Hydrofluorocarbons
HGV	Heavy Goods Vehicle
HND	Holistic Network Design
HRA	Habitats Regulations Appraisal
HIS	Habitat Suitability Index
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current
ICCI	In combination Climate Change Impact
ICE	Inventory of Carbon and Energy
IEMA	Institute of Environmental Management and Assessment
INNS	Invasive non-native species
Invasive Alien Species Regulation	Regulation 1143/2014 on invasive alien species
IPCC	Intergovernmental Panel on Climate Change
JNCC	Joint Nature Conservation Committee
LB	Listed Building
LBAP	Local Biodiversity Action Plan
LCT	Landscape Character Types
LDP	Local Development Plan
LGV	Light Goods Vehicle
LLA	Local Landscape Area
LPP	Local Place Plan
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Sites
mAOD	Meter above Ordnance Datum
MHWST	Mean High Water Spring Tide
MLWS	Mean Low Water Springs

Abbreviation	Term
MLWS	Mean Low Water Springs
MtCO₂e	Megatonnes of Carbon Dioxide Equivalent
MW	Megawatts
N₂O	Nitrous Oxide
NBN	National Biodiversity Network
NDCs	Nationally Determined Contributions
NDHEAs	Non-designated historic environment assets
NETS	National Electricity Transmission System
NF₃	Nitrogen Trifluoride
NGESO	National Grid Electricity System Operator
NGET	National Grid Energy Transmission
NGR	National Grid Reference
NHZ	Natural Heritage Zones
NMPi	National Marine Plan Interactive
NOA	Network Options Assessment
NPF	National Planning Framework
NPF4	National Planning Framework 4
NRFA	National Rivers Flow Archive
NTS	Non-Technical Summary
NTS2	National Transport Strategy 2
NVC	National Vegetation Classification
NWVP	National Water Vole Project
OEMP	Operational Environmental Management Plan
OS	Ordnance Survey
PAN	Planning Advice Note
PAS 2080	Publicly Available Specification 2080 (Carbon Management in Infrastructure)
PFCs	Perfluorocarbons
PiP	Planning permission in principle
PPC	Pollution Prevention and Control (Scotland) Regulations 2012
PRA	Preliminary Roost Assessment
PRF	Potential Roost Features
PWS	Private Water Supply

Abbreviation	Term
Ramsar Convention	Convention on Wetlands of International Importance
Ramsar site	Wetland of International Importance
RBMP	River Basin Management Plan
RICS	Royal Institution of Chartered Surveyors
RTPs	Regional Transport Partnerships
SAC	Special Areas of Conservation
SBL	Scottish Biodiversity List
SBTi	Science-Based Targets initiative
SEPA	Scottish Environment Protection Agency
SF₆	Sulphur Hexafluoride
SFRA	Strategic Flood Risk Assessment
SM	Scheduled Monument
SMR	Sites and Monuments Record
SNH	Scottish Natural Heritage (now NatureScot)
SPA	Special Protection Area
SPEN	SP Energy Networks
SPT	SP Transmission PLC
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
SuDS	Sustainable [urban] drainage systems
SWD	Standing Waters Database
TAG	Transport Assessment Guidance
TCE	The Crown Estate
tCO₂e	Tonnes of Carbon Dioxide Equivalent
tCSNP2	transitional Centralised Strategic Network Plan 2
TJB	Transition Joint Pit
TKUP	Tealing to Kincardine Upgrade Project
TO	Transmission Owner
UK	United Kingdom
UKHab	UK Habitat Classification
UNEP	United Nations Environment Programme

Abbreviation	Term
WANE Act	Wildlife and Natural Environment (Scotland) Act 2011 (as amended)
Water Framework Directive	Council Directive 2000/60/EC establishing a framework for Community action in the field of water policy
WBCSD	World Business Council for Sustainable Development
WCA	Wildlife and Countryside Act 1981 (as amended)
WEWS [Act]	Water Environment Water Services ('the WEWS Act') (Scotland) Act 2003
WFD	Water Framework Directive
WLCA	Whole Life Carbon Assessment
WMP	Water Management Plan
WPZ	Water Protection Zones
WRI	World Resources Institute
WSI	Written Schemes of Investigation
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility

Defined Terms

Term	Definition
the Project	Eastern Green Link 4 (EGL4). The Project is a subsea High Voltage Direct Current (HVDC) link between Westfield in Fife, Scotland and Walpole in Norfolk, England which will reinforce the electricity transmission system. The Project comprises the Scottish Onshore Scheme, Marine Scheme and English Onshore Scheme.
the Scottish Onshore Scheme	The Scottish Onshore Scheme is the part of the Project to which the Application relates. Comprises of the proposed converter station at Westfield in Fife, Scotland which is connected to the existing National Electricity Transmission System (NETS) via the existing Westfield Substation by underground High Voltage Alternating Current (HVAC) cables. From the converter station proposed underground HVDC cables route to the proposal landfall north of Kinghorn.
the Marine Scheme	Comprises the subsea HVDC cable route from the landfall at Kinghorn on the Fife coast, where it connects to the Scottish Onshore Scheme through the North Sea to a landfall on the Lincolnshire Coast where it connects to the English Onshore Scheme.

Term	Definition
the English Onshore Scheme	Comprises the converter station connected to the NETS via a new Walpole Substation in west Norfolk as well as underground HVDC cables from the converter station to a landfall on the Lincolnshire coast where it connects to the Marine Scheme.
the existing 275kV Westfield Substation	The existing 275kV Westfield Substation in Fife. This substation is proposed to be extended (via separate Application) to increase its capacity to 400kV (see ‘the new 400kV Westfield Substation’ below).
the new 400kV Westfield Substation	New proposed extension of the existing 275kV Westfield Substation in Fife, Scotland where EGL4 is connected to the existing electricity transmission system. The Application for the extension forms part of a separate reinforcement known as the Tealing to Kincardine Upgrade Project.
High Voltage Direct Current (HVDC)	Electric power transmission system for efficient long-distance energy distribution minimising energy losses.
High Voltage Alternating Current (HVAC)	Electric power transmission system for shorter distance energy distribution. Alternating current is the form in which electric power is delivered to businesses and residences.
National Electricity Transmission System (NETS)	Carries electricity from the generators to substations, where the voltage is lowered, ready for distribution to homes and businesses.
Landfall	Interface between the Scottish Onshore Scheme and Marine Scheme of the Project. It is where the subsea cables come ashore and are joined to the onshore underground DC cable route.
Underground DC cable route	Underground cables installed in plastic ducts below ground level which transmit DC current electricity.
Subsea DC cables	Subsea cables installed below or on the seabed subject to seabed characteristics
Converter station	Contains specialist electrical equipment to undertake the conversion of electricity from AC to DC or vice versa depending on the direction of operation.
Underground AC cable route	Underground cables installed in plastic ducts below ground level which transmit AC current electricity.
Application Boundary	Land within which the Scottish Onshore Scheme would be situated
Study Area	The geographical area assessed for environmental impacts, varying by chapter
the Applicant	Scottish Power Energy Networks (SP Energy Networks)
the Applications	The applications for planning permission under the Town and Country Planning (Scotland) Act 1997 for planning in principle for the

Term	Definition
	converter station and planning in full for the underground DC cable route for the Scottish Onshore Scheme
Construction Phase	The pre-construction, building and commissioning phase of the Scottish Onshore Scheme
Operational Phase	The period when the Scottish Onshore Scheme is active and in operation
Decommissioning Phase	The end of operational use and the removal and/or making safe of the Scottish Onshore Scheme