

Environmental Impact Assessment (EIA)

Report

LT383 Alyth to Tealing Overhead Line (OHL)

400kV Upgrade

November 2024



VOLUME 2: MAIN REPORT

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LIST OF ABBREVIATIONS

1989 Act	The Electricity Act 1989
ACoW	Archaeological Clerk of Works
ACSHEO	Aberdeenshire Council Senior Historic Environment Officer
AOD	Above Ordnance Datum
ASTI	Accelerated Strategic Transmission Investment
ATC	Automatic Traffic Counter
ATI	Ancient Tree Inventory
ATV	All-terrain Vehicle
AWI	Ancient Woodland Inventory
BAP	Biodiversity Action Plan
BCT	Bat Conservation Trust
BESS	Battery Energy Storage System
BGN	Background Noise
BGS	British Geological Survey
BMP	Biosecurity Management Plan
BNG	Biodiversity Net Gain
BoCC	Birds of Conservation Concern
BPP	Badger Protection Plan
BSI	British Standards Institution
BTO	British Trust for Ornithology
CAA	Civil Aviation Authority
CAR	Controlled Activity Regulation
CBD	Convention on Biological Diversity
CDM	Construction Design and Management
CEMD	Construction Environmental Management Document
CEMP	Construction Environmental Management Plan
CIEEM	Chartered Institute of Ecology and Environmental Management
CNIA	Construction Noise Impact Assessment
COPA	The Control of Pollution Act 1974
CRA	Collision Risk Assessment
CTMP	Construction Traffic Management Plan
CVIA	Construction Vibration Impact Assessment
DBW	Daytime Bat Walkover
DECC	Department of Energy and Climate Change

DfT	Department for Transport
DMP	Drainage Management Plan
DTM	Digital Terrain Model
EclA	Ecological Impact Assessment
ECoW	Environmental Clerk of Works
ECU	The Scottish Government's Energy Consents Unit
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment
EIA Regulations	The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017
EIA Report	Environmental Impact Assessment Report
EMF	Electromagnetic Field
EMP	Environmental Management Plan
EPRI	Electric Power Research Institute
EPS	European Protected Species
EPZ	Equipotential Zone
ESO	Electricity System Operator
ESS	British Energy Security Strategy
FAR	Further Assessment Required
FCS	Forestry Commission Scotland
FRA	Flood Risk Assessment
GDL	Gardens and Designed Landscapes
GEMP	General Environmental Management Plan
GIS	Geographic Information System
GPS	Global Positioning System
GPP	Guidance on Pollution Prevention
GTLA	Ground Level Tree Assessment
GVLIA 3	Guidelines for Landscape and Visual Impact Assessment 3rd Edition
GW	Gigawatt
GWDTE	Groundwater Dependent Terrestrial Ecosystems
HER	Historic Environment Record
HES	Historic Environment Scotland
HGV	Heavy Goods Vehicle
HLAMap	Historic Land-Use Assessment Data for Scotland
HND	Holistic Network Design
HRA	Habitats Regulations Appraisal

IAQM	Institute of Air Quality Management
ICNRIP	International Commission on Non-Ionising Radiation Protection
IEMA	Institute of Environmental Management and Assessment
INNS	Invasive Non-native Species
IUCN	International Union for Conservation of Nature
JNCC	Joint Nature Conservation Committee
LB	Listed Building
LBAP	Local Biodiversity Action Plan
LCC	Land Capability Classification
LCT	Landscape Character Type
LDP	Local Development Plan
LDP2	Local Development Plan 2
LEC	Local Energy Consents
LEP	Long-established Plantation
LEPO	Long-established woodland of plantation origin
LMDW	Lowland Mixed Deciduous Woodland
LNCS	Local Nature Conservation Sites
LNR	Local Nature Reserve
LOD	Limit of Deviation
LPA	Local Planning Authority
LPH	Local Priority Habitats
LSE	Likely Significant Effects
MD – SEDD	Marine Directorate - Science Evidence Data and Digital
Mph	Miles per hour
NBN	National Biodiversity Network
NCN	National Cycle Network
NFI	National Forest Inventory
NHZ	Natural Heritage Zone
NHZ 16	Eastern Lowlands NHZ
NNR	National Nature Reserve
NPF3	National Planning Framework 3 (Scotland)
NRTF	National Road Traffic Forecast
NSR	Noise Sensitive Receptor
NTDS	National Traffic Data System
NTS	Non-Technical Summary

NTS2	National Transport Strategy 2020
NVC	National Vegetation Classification
NWSS	Native Woodland Survey of Scotland
OHL	Overhead Line
OPGW	Optical Ground Wire
OS	Ordnance Survey
PAC	Pre-application Consultation
PAN	Proposal of Application
PDSA	Pre-Desk Study Assessment
PKC	Perth and Kinross Council
PKHT	Perth and Kinross Heritage Trust
PKLDP2	Perth and Kinross Local Development Plan 2
PPG	Pollution Prevention Guidance
PRF	Potential Roost Features
PRF-I	Potential Roost Features suitable for only one or a small number of bats
PRF-M	Potential Roost Features suitable for multiple bats including a maternity colony
PRI	Public Road Improvement
PWS	Private Water Supply
RCAHMS	Royal Commission on the Ancient and Historical Monuments of Scotland
RFI	Radio Frequency Interference
RSPB	Royal Society for the Protection of Birds
SAC	Special Areas of Conservation
SEC	Sealing End Compound
SEPA	Scottish Environment Protection Agency
SHEP	Scottish Historic Environment Policy
SM	Scheduled Monument
SMC	Scheduled Monument Consent
SNH	Scottish Natural Heritage
SPA	Special Protection Area
SPEN	Scottish Power Energy Networks
SPP	Scottish Planning Policy
SpPP	Species Protection Plan
SSSI	Site of Special Scientific Interest
SUDS	Sustainable Drainage Systems
UKHab	UK Habitat Classification

UXO	Unexploded Ordnance
VP	Vantage Point
WCA	Wildlife and Countryside Act 1981 (as amended)
WEWS	Water Environment and Water
WFD	Water Framework Directive
WSI	Written Scheme of Investigation
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility

PREFACE

Scottish and Southern Electricity Networks Transmission (herein referred to interchangeably as ‘SSEN Transmission’ or ‘the Applicant’), operating under licence as Scottish Hydro Electric Transmission plc (SHE Transmission plc), is part of the SSE plc group of companies. SSEN Transmission owns and maintains the electricity transmission network across the north of Scotland and holds a license under the Electricity Act 1989 to develop and maintain an efficient, coordinated and economical system of electricity transmission.

The Applicant is applying for consent under Section 37 of the Electricity Act 1989 to upgrade approximately 14 kilometres (km) of an existing 275 kilovolts (kV) overhead line (OHL), which connects substations at Alyth and Tealing, to enable operation at 400 kV. The main components of the ‘Proposed Development’ comprise the replacement of conductors, insulators, and fittings on the existing steel lattice towers. Where required, tower condition works including steelwork and tower leg foundation work to strengthen existing steel lattice towers will also be undertaken.

This Environmental Impact Assessment Report (EIA Report) is submitted with the application in accordance with The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 (the ‘EIA Regulations’).

The EIA Report contains the following volumes:

- Volume 1 – Non-Technical Summary;
- Volume 2 – EIA Report;
- Volume 3 – Figures; and
- Volume 4 – Technical Appendices.

Notice of the Section 37 application, including this EIA Report and associated documents and figures, will be available for viewing at the following public locations during normal opening hours:

- Perth & Kinross Council, Pullar House, 35 Kinnoull Street, Perth, PH1 5GD (normal opening: hours Monday to Friday 8.45am to 5.00pm); and
- Angus Council, Angus House, Orchardbank Business Park, Orchardbank, Forfar, DD8 1AN (opening hours: Monday to Friday 8.00am to 5.00pm).

An electronic version is available online at: [Alyth - Tealing Overhead Line 400kV Upgrade - SSEN Transmission \(ssen-transmission.co.uk\)](https://ssen-transmission.co.uk)

Any representations in respect of the application may be submitted by email to the Scottish Government via representations@gov.scot; or by post to the Scottish Government, Energy Consents Unit, 4th Floor, 5 Atlantic Quay, 150 Broomielaw, Glasgow, G2 8LU, identifying the proposal and specifying the grounds for representation.

Written or emailed representations should be dated, clearly stating the name (in block capitals) and full postal address of those making representations. Emailed representations should also include the full return email address of those making representations. Only representations sent by email to representations@gov.scot will receive acknowledgement.

All representations should be received no later than the date falling 30 days from the date of the last published notice, although Ministers may consider representations received after this date. Any subsequent additional information which is submitted by the Applicant will be subject to further public notice in this manner, and representations to such information will be accepted as per this notice.

The EIA Report has been advertised in the following newspapers:

Edinburgh Gazette;
Perthshire Advertiser; and
The Dundee Courier.

This EIA Report is available in other formats if required. For details, including costs, contact:

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