

EARBA STORAGE

A GILKES ENERGY COMPANY

Earba Pumped Storage Hydro Scheme EIA Report

**Volume 1: Main Report
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Glossary and List of Abbreviations

Glossary

Term	Meaning
Annex I Species	Any habitat listed on Annex I of the Birds Directive or the Habitats Directive
Baseline Conditions	Existing conditions prior to any modifications through the Proposed Development
CAR Regulations	The Water Environment (Controlled Activities) (Scotland) Regulations 2011 (As Amended)
dB / decibel	A unit of level derived from the logarithm of the ratio between the value of a quantity and a reference value and the scale on which sound pressure level is expressed. Sound pressure level is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and a reference pressure (2x10 ⁻⁵ Pa).
dB(A)	A-weighted decibel. This is a measure of the overall level of sound across the audible spectrum with a frequency weighting (i.e., 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
LAeq,T	LAeq is defined as the notional steady sound level which, over a stated period of time (T), would contain the same amount of acoustical energy as the A-weighted fluctuating sound measured over that period.
Mitigation Measures	Measures including any process, activity or design process to avoid, reduce, remedy or compensate for adverse impacts of a development.
Non-native invasive species	Species introduced into areas outside their natural range that pose a threat to native wildlife
Phase 1 Habitat Classification	Standardised system for classifying habitats in the UK
Potential Impacts	An effect that has potential to change a species or species population.
Reservoir	A large natural or artificial body of water stored for utility purposes
Dam	A barrier built to create storage of water within a reservoir

Term	Meaning
Schedule 1 Species	Species listed in Schedule 1 of the Wildlife and Countryside Act 1981
Shaft Type Powerhouse / Powerhouse	A surface building containing the main pump / turbine equipment plus ancillaries, which includes one or more deep excavation shafts or pits for equipment and water passages.
Statutory Designated Site	Site of nature conservation with legal protection
Tailrace	A downstream water conduit that allows the water to enter / exit the lower reservoir to or from the pump turbines
The Applicant	Earba Ltd
The Developer	Gilkes Energy Limited
The EIA Regulations	The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017
The Proposed Development	The up to 1,800 Megawatt Earba Pumped Storage Hydro scheme and associated infrastructure.
Tunnel Adit or Access Tunnel	A tunnel built to create access from the surface to an area of underground development
Tunnel Portal	The entrance to a tunnel from the surface.
UK BAP Species	Species identified as being most threatened and requiring conservation action under the UK Biodiversity Action Plan.
Underground Waterway System	A series of tunnels, surge shafts and other structures below the ground, connecting the upper and lower reservoirs, via the hydro pump / turbine powerhouse.

List of Abbreviations

Abbreviation	Meaning
AADT	Annual Average Daily Traffic
AIA	Arboricultural Impact Assessment
AIL	Abnormal Indivisible Load
AOD	Above Ordnance Datum
ATC	Automatic Traffic Count
AQMA	Air Quality Management Area
AWI	Ancient Woodland Inventory
BAP	Biodiversity Action Plan
BGS	British Geological Survey
BMP	Biosecurity Management Plan
BS	British Standard
CAR	Controlled Activities Regulations
CEMP	Construction Environmental Management Plan
CNMP	Construction Noise Management Plan
CTMP	Construction Traffic Management Plan
dB	decibel
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
DTM	Digital Terrain Model
EC	European Commission
EcIA	Ecological Impact Assessment
ECU	Energy Consents Unit
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report

Abbreviation	Meaning
FLS	Forestry and Land Scotland
FRA	Flood Risk Assessment
GI	Ground Investigation
GW	Gigawatt
GWDTE	Groundwater Dependent Terrestrial Ecosystems
GWh	Gigawatt Hours
ha	Hectares
HES	Historic Environment Scotland
HGV	Heavy Goods Vehicle
HSE	Health and Safety Executive
HRA	Habitats Regulations Appraisal
HwLDP	The Highland Wide Local Development Plan
IEA	Institute of Environmental Assessment
INNS	Invasive / non-native species
ISO	International Organization for Standardization
JNCC	Joint Nature Conservation Committee
km	kilometre
LAQM	Local Air Quality Management
LB	Listed Building
LBAP	Local Biodiversity Action Plan
LCA	Landscape Character Area
LCT	Landscape Character Types
LDP	Local Development Plan
LI	Landscape Institute
LVIA	Landscape and Visual Impact Assessment
m	Meters

Abbreviation	Meaning
MIR	Main Issue Report
MW	Megawatt
NATS	National Air Traffic Services
NO ₂	Nitrogen Dioxide
NPF	National Planning Framework
NPF3	The 3rd National Planning Framework
NPF4	The 4th National Planning Framework
NPPG	National Planning Policy Guidelines
NRTF	National Road Traffic Forecast
NVC	National Vegetation Classification
OS	Ordnance Surver
PAN	Planning Advice Note
PM	Particulate Matter
PSH	Pumped Storage Hydro
PWS	Private Water Supply
RBMP	River Basin Management Plan
SF	Scottish Forestry
SAC	Special Area of Conservation
SEPA	Scottish Environment Protection Agency
SM	Scheduled Monument
SNH	Scottish Natural Heritage (now Nature Scot)
SPA	Special Protection Area
SPP	Scottish Planning Policy
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Urban Drainage System
THC	The Highland Council

Abbreviation	Meaning
TWL	Top Water Level
UK	United Kingdom
WFD	Water Framework Directive
ZTV	Zone of Theoretical Visibility