



**Loch Kemp
Storage**
A STATERA COMPANY

LOCH KEMP STORAGE - EIA Report

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FICHTNER
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Glossary

Abbreviation or Term	Definition
AADT	The average traffic flow over the course of a full year which passes a particular location on the road network each day.
Abstraction	The removal or diversion of water from the natural water environment.
AEP	Annual Exceedance Probability
AGER	Advisory Group on Economic Recovery
AIL	Loads / vehicles which exceed the maximum vehicle weight, axle weight or dimensions which are set out in the Road Vehicles (Construction and Use) Regulations 1986 as amended.
Air Quality Objective	An objective is the target date on which exceedance of a Standard must not exceed a specified number
Air Quality Standard	Concentrations recorded over a given time period, which are considered to be acceptable in terms of what is scientifically known about the effects of each pollutant on health and on the environment. They can also be used as a benchmark to indicate whether air pollution is getting better or worse
AIS	Air Insulated Switchgear
ALAN	Artificial Light at Night
Ambient sound	Totally encompassing sound in a given situation at a given time, usually composed of sound from many sources near and far
Ambient sound level, La = LAeq,T	Equivalent continuous A-weighted sound pressure level of the totally encompassing sound in a given situation at a given time, usually from many sources near and far, at the assessment location over a given time interval, T
Ammocoetes	The larva of the lamprey, that lives buried in soft sediments and feeds on microorganisms.
Anadromous	The term that describes fish born in freshwater who spend most of their lives in saltwater and return to freshwater to spawn.
Annual Average Daily Traffic (AADT)	The total volume of vehicle traffic of a highway or road divided by 365 days.

AOD (Above Ordnance Datum)	The system used by Ordnance Survey in Great Britain as the basis for deriving altitude on maps.
APIS	Air Pollution Information System
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area
AQS	Air Quality Strategy
AQSR	Air Quality Scotland Regulations
AQUI	Acid Watercourses Quality Index
ASH	ASH design + assessment Limited
A-weighted sound pressure level	The human ear does not hear sound equally through the audible frequency range. At low frequencies and at very high frequencies the ear is less sensitive. In order to reflect this subjective response, the 'A' weighted network has been devised. The network applies suitable corrections to a noise, dependant on the frequency, so that the resultant 'A' weighted sound pressure level is representative of what would be perceived by the human ear. Subjectively, a difference of 3dB(A) in sound level may be just noticeable and a difference of 10dB(A) represents a doubling or halving of loudness.
ASR	Annual Status Report
ATC	Equipment which is laid across a road and measures traffic characteristics such as the number of vehicles passing over it, speed and classification.
AURN	Automatic Urban and Rural Network
Avoidance	Used where an impact has been avoided e.g. through changes in scheme design.
AWI	Ancient Woodland Inventory
Background sound level, LA90,T	A-weighted sound pressure level that is exceeded by the residual sound at the assessment location for 90% of a given time interval, T, measured

	using time weighting, F, and quoted to the nearest whole number of decibels
BAP	Biodiversity Action Plan
BCT	Bat Conservation Trust
BGS	British Geological Survey
BLS	British Lichen Society
BNG	Biodiversity Net Gain
BS	British Standard
BT	British Telecoms
BWB	British Waterways
CAPEX	Capital Expenditure
CAR	Controlled Activity Regulations
CAR licence	A licence for activities affecting the water environment, issued by SEPA under The Water Environmental (Controlled Activities) (Scotland) Regulations 2011 (as amended).
CAS	Clean Air Strategy
Catchment	An area of land within which water flows to a particular location.
CEMP	Construction Environmental Management Plan
CFRD	Concrete Faced Rockfill Dams
CIEEM	Chartered Institute for Ecology and Environmental Management
CLmaxN	Maximum critical load for nitrogen, used to calculate the critical load functions for acidity.
CLmaxS	Maximum critical load for sulphur, used to calculate the critical load functions for acidity

CLminN	Minimum critical load for nitrogen, used to calculate the critical load functions for acidity.
CMP	Construction Method Plan
CNL	Change in Ambient Noise Level
CNVMP	Construction Noise and Vibration Management Plan
Compensation	Describes measures taken to offset residual effects i.e. where mitigation in situ is not possible.
Compensation Flow / Compensation release	Water released from a dam to maintain a flow of water down a watercourse.
COP (COP21, COP26, and COP27)	UN Climate Change Conference of the Parties
CoWRP	Control of Woodland Removal Policy
CP	Compensatory Planting
Critical Levels	A quantitative estimate of exposure to one or more airborne pollutants in gaseous forms, below which significant harmful effects on sensitive elements of the environment do not occur, according to present knowledge.
Critical Loads	A quantitative estimate of exposure to deposition of one or more pollutants, below which significant harmful effects on sensitive elements of the environment do not occur, according to present knowledge.
CRTN	Calculation of Road Traffic Noise
Construction Traffic Management Plan (CTMP)	Document which outlines traffic management measures to mitigate adverse impacts associated with construction related traffic.
Deposited Dust	Dust that is no longer in the air and which has settled out onto a surface
DF	Douglas Fir
DfT	Department for Transport
DIA	Drainage Impact Assessment
Disamenity	Nuisance caused by an activity such as noise, odour, litter, vermin, visual intrusion and associated perceived discomfort
Discharge	The release of water or other substances into the natural water environment.
DMP	Dust Management Plan
DMRB	Design Manual for Roads and Bridges
Drawdown	The lowering of water level in a reservoir.

Dust	Solid particles that are suspended in air, or have settled out onto a surface after having been suspended in air
Dust Generating Activity	Any site activity which has the potential to result in the generation of dust emissions to atmosphere
Dust Soiling	The effect of deposited dust upon surfaces, which can lead to annoyance
DWP	Department for Work and Pensions
DWPA	Drinking Water Protected Area
EclA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
ECU	Energy Consents Unit
EGPS	Electricity Generation Policy Statement
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment – the process of undertaking a series of specialist environmental studies in order to identify and describe the predicted significant effects of a proposed development.
EIA Regulations	The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 (EIA Regulations).
EIA Report	Environmental Impact Assessment Report reports on the findings of the EIA.
Elver	A juvenile eel.
E&M	Electrical and Mechanical
EMF	Electromagnetic Fields
EMI	Electromagnetic Interface
Enhancement	The provision of new benefits for biodiversity that are additional to those provided as part of mitigation or compensation measures, although they can be complementary.
Entrainment	When fish follow the flow of diverted water, they become entrained.
EPUK	Environmental Protection UK
Equivalent continuous A-weighted sound pressure level, LAeq,T	Value of the A-weighted sound pressure level in decibels of continuous steady sound that, within a specified time interval, $T = t_2 - t_1$, has the same mean-squared sound pressure as a sound that varies with time,
European Eel	A species of eel, a snake-like, catadromous fish.

FDC (Flow Duration Curve)	A plot illustrating the percentage of time that the flow in a watercourse exceeds a given rate.
Ferox	Ferox trout is a traditional name for large, piscivorous trout, which in Scotland feed largely on Arctic char.
FLS	Forestry and Land Scotland
FMS	Fisheries Management Scotland
FRA	Flood Risk Management
Fry	After alevins have used up their yolk sacs these young salmonids are known as fry.
FTE	Full Time Equivalents
Fugitive Dust	Fugitive emissions are those which are not collected and released under controlled physical conditions, e.g. emitted from a stack
Freshwater Pearl Mussel (FWPM)	An endangered species of freshwater mussel, an aquatic bivalve mollusc in the family <i>Margaritiferidae</i> .
GBDVS	Great Britain Day Visitor Survey
GBTS	Great Britain Tourism Survey
Generating Mode	Transferring water from the upper reservoir to the lower reservoir during the operation of the Proposed Development
GIS	Gas Insulated Switchgear
GPP	Guidance for Pollution Prevention
GVA	Gross Value Added
GWDTE	Groundwater Dependent Terrestrial Ecosystems
GWh	Gigawatt hours – a unit of energy equivalent to a steady power of 1 gigawatt (1 million kilowatts) running for one hour.
GWP	Global Warming Potential
HBRG	Highland Biological Recording Group
HER	Historic Environment Record
HGV	Heavy Goods Vehicles > 3.5 tonnes gross maximum weight.
HIE	Highlands and Islands Enterprise
HL	Hybrid Larch
HMCHI	Heathland Biological Recording Group

HMP	Habitat Management Plan
HRA	Habitats Regulations Appraisal
HRES	Highland Renewable Energy Strategy Planning Guidelines
Highland wide Local Development Plan (HwLDP)	Forms the basis for spatial planning within the Highland Council area as a whole.
IAQM	Institute of Air Quality Management
IDBR	Inter Departmental Business Register
IEMA	The Institution of Environmental Management and Assessment
IMFLDP	Inner Moray Firth Local Development Plan
Impingement	Impingement is the physical contact of a fish with such a barrier structure (screen) due to intake velocities which are too high to allow the fish to escape
Important ecological receptor	Designations, habitats or species with a value of Local level or above, potential GWDTEs or legally protected species.
IPCC	Intergovernmental Panel on Climate Change
IUCN Invertebrate Red Data Book	The IUCN Red List is a critical indicator of the health of the world's biodiversity.
JRC	Joint Radio Company
Keg	Kiliequivalent
km	Kilometres
kV	kilovolt
Lamprey	Lampreys are an ancient extant lineage of jawless fish of the order <i>Petromyzontiformes</i> .
LAQM	Local Air Quality Management
LB	Listed Building
LCT	Landscape Character Type
LDP	Local Development Plan
LDV	Light Duty Vehicles (<3.5 tonne weight)
LEPO	Long Established Woodland if Plantation Origin
Level duration	The period of time during which the reservoir (upper or lower) is at a particular water level.

LI	Landscape Institute
Lights or LGV	All commercial vehicles < 3.5 tonnes gross maximum weight.
Littoral Zone	Relating to or situated on the shore of a lake, where photosynthesis is possible.
LNR	Local Nature Reserve
Loch Kemp Storage Ltd	The Applicant
Lotic	Running fresh water.
LP	Lodgepole Pine
LTS	Document which sets out the direction for transport in The Highland Council area.
LUC 3	Scotland's Third Land Use Strategy 2021 - 2026
LVIA	Landscape & Visual Impact Assessment
MoA	Minute of Agreement
Macroinvertebrate	An animal with no vertebral column which is visible to the naked eye.
Macrophyte	An aquatic plant which is visible to the naked eye
m AOD	metres Above Ordnance Datum
MC	Mixed conifers
MD-SEDD	Marine Directorate – Science, Evidence, Data and Digital
Mitigation Measures	Measures including any process, activity or design process to avoid, reduce, remedy or compensate for adverse impacts of a development.
Mm ³	Million cubic meters.
MW	Megawatt – a unit of power equal to one million watts
NBFT	Ness and Beaully Fisheries Trust
NBL	Native Broadleaves
NCN	A UK-side network of paths and routes which are signed for walking, cycling and wheeling.
NCR	Designated National Cycle Routes within the UK.
NDA	Non-disclosure Agreement
Ness District Salmon Fishing Board (NDSFB)	Statutory body with responsibility for salmon and sea-trout fishery protection and enhancement in the Lochaber region.

NGR	National Grid Reference
NML	Noise Monitoring Location
NO ₂	Nitrogen dioxide
NO _x	Oxides of Nitrogen
NPerF	National Performance Framework
NPF3	Third National Planning Framework
NPF4	Fourth National Planning Framework
NRMM	Non-Road Mobile Machinery
National Road Traffic Forecast (NRTF)	Factors used to apply future year growth to traffic flows.
NS	Norway Spruce (when referring to a tree species only)
NSEB	North of Scotland Electricity Board
NSR	Noise Sensitive Receptor
NS	NatureScot
NTS	Non-Technical Summary
Nuisance	Annoyance resulting from deposited dust
NVC	National Vegetation Classification
OAMP	Outdoor Access Management Plan
OG	Open Ground
OHL	Overhead Line
ONS	Office for National Statistics
OPEX	Operational Expenditure
OS	Ordnance Survey
OWESG	Onshore Wind Energy Supplementary Guidance
PAN	Planning Advice Note
Parr	Salmonid fish are known as parr once they are over a year old. They stay in freshwater for between one and four years, feeding on small insects and growing larger.

PAWS	Plantations on Ancient Woodland Sites. Ancient semi-natural woodland recorded on the Ancient Woodland Inventory where the native tree cover has been felled and replaced by planting of tree species not native to the site.
Process Contribution (PC)	The environmental concentration of each substance you release into the air
PEC	Predicted Environmental Concentration - Total concentration, i.e. the sum of the background concentration and any additional concentrations as a result of the Proposed Development
Phoenix tree	A tree that is lying more or less parallel with the ground as a result of rooting or stem failure, with new growth having developed in this new orientation.
PLHRA	Peat Landslide Hazard Risk Assessment
PM _{2.5}	Particulates with a diameter of less than 2.5µm
PM ₁₀	Particulates with a diameter of less than 10µm
PMP	Peat Management Plan
PPG	Pollution Prevention Guidance
PPV	Peak Particle Velocity
PRF	Potential Roosting Feature
PSH	Pumped Storage Hydro
Pumping mode	Transferring water from the lower reservoir to the upper reservoir during the operation of the Proposed Development.
PWS	Private Water Supply
PYE	Person Years Employment
Rating level, L _{Ar} ,T _r	Specific sound level plus any adjustment for the characteristic features of the sound
RCC	Roller Compacted Concrete
Residual Catchment	The area of catchment downstream of the dam which would not be affected by the Proposed Development.
Residual sound	Ambient sound remaining at the assessment location when the specific sound source is suppressed to such a degree that it does not contribute to the ambient sound
Residual sound level, L _r = L _{Aeq,T}	Equivalent continuous A-weighted sound pressure level of the residual sound at the assessment location over a given time interval, T.
Riparian	Relating to or situated on the banks of a river.

Rocky Lake Shore TNTN	Rocky Lake Shore Threatened Near Threatened and Notable Index
RSPB	Royal Society for the Protection of Birds
RSR	Report assessing the suitability of a route to transport abnormal loads.
SAC	Special Area of Conservation
Salmonid	Any of a family (Salmonidae) of elongate bony fishes (such as a salmon or trout) that have the last three vertebrae upturned.
SBL	Scottish Biodiversity List
SC	Scottish Canals
Scoping Opinion	The written opinion of the determining authority as to the scope and level of detail of information to be provided in an EIA report.
Scottish Canals	The British Waterways Board, operating as Scottish Canals – Public body with statutory duty for the operation and maintenance of waterways in Scotland.
Sea Trout	Sea trout is the common name usually applied to anadromous forms of brown trout.
Section 36	An application submitted under Section 36 of The Electricity Act (1989) for an electricity generating station with an output greater than 50 megawatts (MW).
SEL	Statera Energy (UK) Limited – (“the Developer”)
SEPA (Scottish Environment Protection Agency)	A non-departmental public body tasked with the protection of the environment and human health in Scotland.
SES	Scottish Energy Strategy
Silver Eel	An adult eel which is ready to return to sea.
SIMD	Scottish Index of Multiple Deprivation
SLA	Special Landscape Area
SLNCI	Site of Local Nature Conservation Interest
SM	Scheduled Monument
Smolt	Salmon and sea trout parr transform into smolts in the spring of their second, third or fourth year in preparation for migrating downstream to the sea. Smolts head out to sea in shoals during mid-March – June.
SNH	Formerly Scottish Natural Heritage, now referred to as NatureScot
Sound Power Level, Lw	A measure of the total sound energy radiated from a source.

Sound Pressure Level, Lp	Sound pressure level is measured in units of decibels on a logarithmic scale reference to the threshold of hearing, 2×10^{-5} Pascals.
SP	Scots Pine
SPA	Special Protection Area
Specific sound	The sound being assessed
Specific sound level, Ls = LAeq,T	Equivalent continuous A-weighted sound pressure level produced by the specific sound source (the sound source being assessed) at the assessment location over a given reference time interval, Tr
Spill event	The flow of additional water downstream of the dam when the upper reservoir has reached capacity.
SPP	Scottish Planning Policy
SS	Sitka Spruce
SSEN Transmission	Scottish and Southern Electricity Networks Transmission
SSSI	Site of Special Scientific Interest
Stakeholders	Organisations and individuals who can affect or may be affected by the Proposed Development.
Standing By	No water transfer taking place between the reservoirs of the Proposed Development.
SuDS	Sustainable Drainage Systems
SW (Scottish Water)	Publicly-owned company responsible for water supply and treatment of waste water in Scotland.
SWT	Scottish Wildlife Trust
TA	Transport Assessment
TAN	Technical Advice Notice
THC	The Highland Council
The Planning Act	Town and Country Planning (Scotland) Act 1997, as amended
The Proposed Development	Loch Kemp Storage
The Proposed Development Footprint	The area within which the Proposed Development will be located
Thermal stratification	The thermal stratification of lakes refers to a change in the temperature at different depths in the lake and is due to the density of water varying with temperature.

Thermocline	A thermocline (also known as the thermal layer or the metalimnion in lakes) is a thin but distinct layer in a large body of fluid (e.g., water, as in an ocean or lake; or air, e.g., an atmosphere) in which temperature changes more drastically with depth than it does in the layers above or below.
The Site	The site boundary
Trackout	The transport of dust and dirt from the mineral site onto the public road network, where it may be deposited and then re-suspended by vehicles using the network.
TS	Transport Scotland
T	Trunk Road
UK BAP (UK Biodiversity Action Plan)	A UK-wide plan outlining objectives for the improvement of biodiversity which identifies priority species and habitats as a focus for conservation and enhancement.
UKFS	UK Forestry Standards
Water Framework Directive	Directive 2000/60/EC establishing a framework for the Community action in the field of water policy.
WestPlan	The West Highland and Islands Local Development Plan, 2019
WFD	Water Framework Directive
WLA	Wild Land Area
WMP	Woodland Management Plan
WTW	Water Treatment Works
ZTV	Zone of Theoretical Visibility
1989 Act	Electricity Act 1989 – Provided for the privatisation of the electricity supply industry in Great Britain and detailed the obligations of Energy Providers.