



EAST PARK ENERGY

East Park Energy

EN010141

Environmental Statement

Table of Contents, Glossary, and Acronyms

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EAST PARK ENERGY

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Table of Contents, Glossary, and Acronyms

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Glossary

Term	Description
Abnormal Indivisible Load	A load that, due to its size, mass, or shape, cannot be divided into smaller parts for transport without compromising its function or incurring excessive cost or risk. Such loads typically require special transport arrangements and permits due to their dimensions or weight exceeding standard legal limits.
Above Ordnance Datum	A vertical measurement system used to denote elevations relative to a fixed reference point, known as the Ordnance Datum. In the UK, the Ordnance Datum is based on mean sea level at Newlyn, Cornwall, and elevations are expressed as being above or below this baseline.
Access Tracks	The roadways within the Order Limits constructed or used to provide a means of access internally around the Scheme.
Additional Mitigation	Measures implemented beyond the embedded mitigation to further reduce or remediate adverse impacts.
Ancient Woodland	A forested area that has existed continuously since at least 1600 AD in the UK. These woodlands are often rich in biodiversity and considered irreplaceable due to their long-term ecological continuity.
Ancillary Infrastructure	Works to include boundary fencing, other means of enclosure, security infrastructure, drainage, signage, earthworks, and paths.
Associated Infrastructure	Supporting infrastructure that is necessary for the delivery of the Scheme. This can include access tracks, utilities, drainage systems, and other ancillary infrastructure that enable the functioning or development of the Scheme.
Agricultural Land Classification	A system used to grade the quality of farmland based on factors such as soil quality, climate, and drainage. In the UK, it ranges from Grade 1 (excellent quality) to Grade 5 (very poor quality), with higher grades indicating greater suitability for productive agriculture.
Automatic Traffic Count	A method of monitoring and recording vehicle flow on roads using automated sensors, such as pneumatic tubes, infrared sensors, or inductive loops. This data helps analyse traffic patterns, volumes, and trends over time without manual intervention.
Auxiliary Transformer	A smaller transformer used in power systems to supply electrical power to equipment such as lighting, cooling systems, or control circuits, within a substation or industrial facility. It typically steps down the voltage from the main supply to the lower levels required for these systems.
Azimuth Angle	The angle from true north measured clockwise in a horizontal plane.
Baseline Conditions	The existing conditions for an environmental receptor or resource before any proposed development or intervention occurs. This serves as a reference point for assessing potential impacts of future projects.

Term	Description
Best and Most Versatile Land	Refers to land that has the highest potential for agricultural productivity and adaptability to various crops or uses. This type of land typically features fertile soil, favourable climate conditions, and adequate water supply, making it suitable for a wide range of agricultural activities and potentially other developments. Best and Most Versatile Land is land with an Agricultural Land Classification of Grade 3a or above.
BSSL Cambsbed 1 Ltd	The Applicant for the Scheme. BSSL Cambsbed 1 Ltd is ultimately a wholly owned subsidiary of Brockwell Energy Ltd.
Busbars	Conductive strips or bars used to distribute electrical power within a switchboard, panel, or substation. They provide a common connection point for multiple circuits and can handle high current loads, facilitating the efficient transfer of electricity between different components of an electrical system.
Cable Sealing End	A specialised termination point at the end of an electrical cable that prevents moisture and contaminants from entering the cable while ensuring safe and reliable electrical connections. It typically includes protective components like insulation and sealing materials to maintain the integrity of the cable in various environmental conditions.
Centralised Inverters	Inverters, switchgear and transformers that are housed in containers and distributed through the Scheme.
Circuit Breaker	Safety device which main function is to interrupt an overcurrent flow to protect equipment.
Construction Compound	A temporary laydown area that would include offices, car parking, welfare facilities, and storage for materials and equipment.
Construction Phase	The phase in which the Scheme would be built.
Cumulative Effect	The combined impact on the environment resulting from multiple individual projects or activities over time. This effect considers how these interactions may lead to significant changes in environmental conditions, even if each project alone may not result in significant effects.
Decommissioning Phase	The phase in which the Scheme would be removed and the land restored in accordance with the development consent order, which follows the Operational Phase.
Design Parameter	A measurable factor or specification that influences the design of the Scheme.
Development Consent Order	A legal document that grants permission for certain types of large-scale infrastructure projects, such as energy generation, transport, or water management. A DCO combines planning consent and other necessary approvals into a single application, streamlining the decision-making process.

Term	Description
Disconnecter	Switching device used to provide safe isolation by de-energising parts of an electrical network for maintenance and service.
East Park Substation	The proposed on-site 400 kV electrical substation.
Eaton Socon Substation	The existing National Grid Substation at Eaton Socon, where the Scheme will connect with the National Grid.
EIA Development	A proposed development that requires Environmental Impact Assessment.
EIA Regulations	<i>The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017</i>
Embedded Mitigation	Environmental mitigation measures that are integrated into the proposed design and management of a project from the outset.
Enhancement	Initiatives that are not required to mitigate the adverse effects of a proposed development, but which will provide enhancement.
Environmental Impact Assessment (EIA)	A systematic process used to evaluate the potential environmental effects of a project before it is carried out. The EIA aims to identify ways to mitigate adverse effects, ensuring informed decision-making and promoting sustainable development.
Field Capacity Days	A measurement used in agriculture to indicate the number of days soil can retain moisture at field capacity – the maximum amount of water the soil can hold after excess water has drained away.
Flood Zone	Areas identified by the Environment Agency based on their risk of flooding, typically defined by historical data and hydrological models. Flood Zones indicate the likelihood of flooding, with classifications ranging from low-risk areas (Zone 1) to high-risk areas (Zone 3).
Future Baseline	The projected environmental conditions expected to exist in the future, considering anticipated changes such as climate change. These conditions serve as a reference point for assessing the potential impacts.
Geophysical Survey	A non-invasive technique used to detect and map archaeological features buried beneath the ground surface. This survey employs methods such as ground-penetrating radar, magnetometry, and resistivity to identify anomalies and patterns indicative of human activity, allowing archaeologists to gather information about a site without excavation.
Green Infrastructure	A network of multi-functional green space, other green features, and landscaping, designed to deliver multiple environmental benefits.
Grid Connection	Used when referring to the 400 kV cable corridor between the East Park Substation and the Eaton Socon Substation

Term	Description
Grid Connection Corridor	The corridor in which the Grid Connection would be constructed between the East Park Substation and Eaton Socon Substation.
Gross Value Added (GVA)	GVA reflects the contribution of labour and capital to the economy and is a key indicator for assessing economic performance and productivity at various levels, such as regional or national.
High Voltage Cabling	The on-site 33kV cables which transmit electricity generated by the Scheme to the on-site East Park Substation.
Inter Project Effect	The cumulative impact that arises when multiple projects in proximity to each other interact or influence one another, potentially leading to combined environmental effects that are greater than the sum of their individual impacts.
Intra Project Effect	Where the environmental impacts of the Scheme can interact and combine to potentially increase the level of effect on a particular receptor.
Inverters	Inverters convert the direct current electricity generated by the PV panels into alternating current.
Joining Chamber	Underground structure constructed at intervals along the Grid Connection to join sections of cable and facilitate maintenance.
Likely Significant Effect	The potential impacts of the Scheme that are expected to have a substantial effect on the environment, based on initial assessments.
Listed Building	A building recognised for its historical, architectural, or cultural significance. Listed buildings are categorized into grades (Grade I, II*, and II) based on their importance, with Grade I being the rarest and most important examples.
Low Voltage Cabling	Electrical wiring designed to carry low voltage levels.
Magnitude of Impact	A measure of the scale or intensity of an impact on the environment. It considers factors such as severity, duration, reversibility, and extent of the impact.
Mitigation	Actions or measures taken to avoid, reduce, remediate, or compensate adverse impacts on the environment.
Monitoring	The process of tracking and evaluating the effectiveness of mitigation measures. This ongoing evaluation ensures that mitigation measures achieve their intended goals and allows for adjustments as needed to ensure compliance with commitments made during the planning process.
National Policy Statement (NPS)	A document that sets out the Government's policies for specific sectors, such as energy, transport, or waste management, in the context of planning and development in the UK. NPSs provide a framework for decision-making.

Term	Description
Nationally Significant Infrastructure Project (NSIP)	A category of large-scale projects in the UK that are subject to a specific planning regime under the Planning Act 2008. NSIPs include projects such as energy generation facilities, transport infrastructure, and water management schemes, and they require a Development Consent Order (DCO) for approval, involving public consultation and examination processes.
Non-Statutory	Refers to processes, designations, or recommendations that are not legal requirements or set out by law. Non-statutory requirements can still influence decision-making but do not carry the same legal weight as statutory requirements.
Operational Phase	The phase following the Construction Phase and preceding the Decommissioning Phase, during which the Scheme would generate and export electricity and be operated and maintained. For the purposes of the ES, the Operational Phase includes maintenance, repair, renewal and replacement activities, including replacement campaigns, unless expressly stated otherwise.
Pitch	The horizontal spacing between individual solar arrays. This distance is crucial for optimising energy capture by minimising shading between panels, and ensuring accessibility for maintenance.
Photomontage	A visual representation created by superimposing an image of a proposed development upon a photograph or series of photographs to depict how the development will look in its actual environment.
Planning Inspectorate	A UK government agency responsible for examining applications for Nationally Significant Infrastructure Projects (NSIPs). The Planning Inspectorate ensures that planning decisions are made fairly and transparently, conducting the DCO examination and providing a recommendation to the Secretary of State based on evidence gathered during the examination process.
Power Conversion System (PCS)	A technology that converts electrical power from one form to another, typically from direct current (DC) to alternating current (AC) or vice versa. The PCS is essential for managing an energy storage system and ensuring the efficient use of electricity in various applications.
Preliminary Environmental Information	A preliminary assessment of the potential environmental effects likely to result from the Scheme.
Preliminary Environmental Information Report (PEIR)	The Applicant must prepare and consult on 'preliminary environmental information' as part of the statutory consultation. The PEIR presents the preliminary environmental information.
Public Right of Way	A designated path or route that the public is legally entitled to use. Public rights of way can include footpaths, bridleways, byways open to all traffic, and restricted byways.
PV array	A PV array is a grouping of PV tables.

Term	Description
PV mounting structure	A PV mounting structure is the metal frame on which PV panels are mounted. Collectively, the PV panels and PV mounting structure are referred to as a PV table.
PV panels	A PV panel is a solar photovoltaic panel which converts sunlight directly into electricity.
PV tables	PV tables are groups of PV panels mounted on a single PV mounting structure, collectively a group of PV tables form a PV array.
Receptor	A component of the natural or man-made environment that is affected by an impact, including people.
Requirements	Conditions that must be fulfilled as part of a DCO for Nationally Significant Infrastructure Projects in the UK.
Residual Effect	The remaining effect on the environment after all proposed mitigation measures have been implemented.
Retention Basin	A designed area used to manage water runoff by temporarily storing excess water during heavy rainfall. These basins help reduce flooding, improve water quality by allowing sediments to settle, and facilitate gradual release of water into surrounding areas or drainage systems. They are an important component of sustainable urban drainage systems (SuDS).
Rochdale Envelope	An approach that allows for flexibility in the design of a proposed project by outlining a broad range of parameters within which the project can be developed. This concept is particularly used in the context of Environmental Impact Assessments (EIAs) to assess potential impacts based on the worst-case scenario, while allowing for adjustments in design and implementation as the project evolves. It enables developers to adapt to changing circumstances without requiring a complete re-evaluation of environmental impacts.
Scoping	The process of determining the specific environmental topics and potential impacts that should be assessed in an Environmental Impact Assessment (EIA) for a proposed project.
Scheduled Monument	A site or structure recognised for its historical or archaeological significance.
Solar PV Areas	The areas within the Order Limits where PV arrays are proposed.
Solar Transformer	Transformers that will be distributed throughout the Scheme, which step-up the voltage of the electricity produced by solar panels.
Surge Arrester	Protective device used for limiting voltage by redirecting a surge current away from the equipment.
Statutory Consultation	A formal process required by law that involves seeking the views of stakeholders, including government agencies, local authorities, and the public, regarding a proposed development. This consultation is

Term	Description
	mandated by legislation and ensures that relevant parties have the opportunity to express their opinions, concerns, and suggestions, which must be considered in the decision-making process.
Statutory Designation	An official designation granted to a site, area, or feature by Government or a regulatory body, often to protect its legal status due to its historical, cultural, or environmental significance. Examples include Scheduled Monuments, Sites of Special Scientific Interest (SSSIs), and National Parks.
Statutory Environmental Body	A UK Government agency responsible for enforcing environmental regulations, conducting assessments, and ensuring compliance with environmental standards. In the UK, examples include the Environment Agency, Natural England, and Historic England.
Statutory Undertaker	An organisation that has been granted specific legal powers to provide essential services or infrastructure, such as water supply, electricity, gas, or transportation.
String Inverters	Inverters located throughout the Scheme which are mounted on the PV mounting structures underneath the PV panels.
Study Area	The area that is the focus of assessment. The study area is defined to encompass the relevant area that may be significantly affected by the Scheme.
SuDS	A range of techniques and approaches designed to manage surface water drainage in a sustainable way. SuDS aim to reduce flooding, improve water quality, and enhance biodiversity.
Switchgear	Switchgears are the combination of electrical disconnect switches, fuses or circuit breakers used to control, protect and isolate electrical equipment.
the Applicant	The Applicant is BSSL Cambsbed 1 Ltd.
the Scheme	The Scheme is the East Park Energy project.
the Site	The 'Site' is used to refer to land within the Order Limits when speaking generically or in relation to the whole Order Limits.
Tranquillity	A state of calm and quietude associated with peace, often associated with natural landscapes. Tranquillity encompasses both the visual and auditory aspects of a landscape, including the absence of intrusive sounds and sights, which contribute to a serene environment.
Transformer	A structure serving to transfer electricity from one circuit to another, either stepping-up or stepping-down the electrical voltage.
Type 1 Hardcore	A type of granular material consisting of crushed stone.
Visibility Splay	An area at a road junction or access point that ensures clear sightlines for drivers to see approaching traffic and pedestrians. Visibility splays are designed to improve safety by providing adequate space for drivers

Term	Description
	to assess the road conditions and make informed decisions when entering or exiting the road. The dimensions of a visibility splay depend on factors such as vehicle speed, road type, and local regulations.
Visual Receptor	Individuals and / or defined groups of people who have the potential to be affected by the Scheme.
Work Plans	The plans submitted with the application which set out where the development proposed as part of the Scheme would occur.
Zone of Influence	The area for the assessment of cumulative effects. Zones of Influence (Zols) are variable depending on the environmental topic being assessed.
Zone of Theoretical Visibility	A map showing areas of land within which a development is theoretically visible.

Acronyms

Acronym	Definition
AAC	Area of Archaeological Constraint
AADT	Annual Average Daily Traffic
AAWT	Annual Average Weekday Traffic
AC	Alternating Current
ACoW	Archaeological Clerk of Works
ACEC	Aggressive Chemical Environment for Concrete
AEP	Annual Exceedance Probability
ALC	Agricultural Land Classification
AOD	Above Ordnance Datum
AoNB	Area of National Beauty
APFP Regulations	Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
APIS	Air Pollution Information Service
AQAL	Air Quality Assessment Level
AQMA	Air Quality Management Area
AQO	Air Quality Objective
AQS	Air Quality Strategy
ATC	Automatic Traffic Count
ATI	Ancient Tree Inventory
AWI	Ancient Woodland Inventory
BAT	Best Available Techniques
BaU	Business as Usual
BBC	Bedford Borough Council
BBHET	Bedford Borough Council Historic Environment Team
BCT	Bat Conservation Trust
BESS	Battery Energy Storage System
BGS	British Geological Society
BLBRMC	Bedfordshire and Luton Biological Recording and Monitoring Centre
BMV	Best and Most Versatile
BNG	Biodiversity Net Gain
BOAT	Byway Open to All Traffic
BoCC	Birds of Conservation Concern
BPM	Best Practicable Means

Acronym	Definition
BRE	Building Research Establishment
BS	British Standard
BSU	Battery Storage Units
BTO	British Trust for Ornithology
CCC	Cambridgeshire County Council
CCGT	Combined Cycle Gas Turbine
CCRA	Climate Change Risk Assessment
CCS	Carbon Capture Storage
CEA	Cumulative Effects Assessment
CEMP	Construction Environmental Management Plan
CGeol	Chartered Geologist
CHET	Cambridgeshire Historic Environment Team
CIEEM	Chartered Institute of Ecology and Environmental Management
C&I	Commercial and Industrial
CIfA	Chartered Institute for Archaeologists
CIRIA	Construction Industry Research and Information Association
CIWEM	Chartered Institute of Water and Environmental Management
CMLI	Chartered Members of the Landscape Institute
CoP	Code of Practice
CPERC	Cambridgeshire and Peterborough Environmental Record Centre
CRTN	Calculation of Road Traffic Noise
cSAC	Candidate Special Area of Conservation
CSM	Conceptual Site Model
CTMP	Construction Traffic Management Plan
CWMP	Construction Waste Management Plan
CWS	County Wildlife Site
DAD	Design Approach Document
dB	Decibels
DC	Direct Current
DCO	Development Consent Order
DDCMS	Department for Digital, Culture, Media and Sport
Defra	Department for Environment Food and Rural Affairs
DEMP	Decommissioning Environmental Management Plan
DESNZ	Department for Energy Security and Net Zero
DMCS	Department for Media, Culture and Sports

Acronym	Definition
DMP	Dust Management Plan
DMRB	Design Manual for Roads and Bridges
DQRA	Detailed Quantitative Risk Assessment
DRMP	Decommissioning Resource Management Plan
DS	Design Sulphate
DSM	Digital Surface Model
DTM	Digital Terrain Model
EA	Environment Agency
EclA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment
EMF	Electromagnetic Field
EN-1	Overarching National Policy Statement for Energy (EN-1)
EN-3	National Policy Statement for Renewable Energy Infrastructure (EN-3)
EN-5	National Policy Statement for Electricity Networks Infrastructure (EN-5)
EPD	Environmental Product Declarations
EPO	Environmental Protection Officer
EPS	European Protected Species
ES	Environmental Statement
FBIAC	Fellow of the British Institute of Agricultural Consultants
FCD	Field Capacity Day
FRA	Flood Risk Assessment
FTE	Full Time Equivalent
GCN	Great Crested Newt
GHG	Greenhouse Gas
GLVIA	Guidelines for Landscape and Visual Impact Assessment 3rd Edition
GPS	Global Positioning System
GQRA	Generic Quantitative Risk Assessments
GTLA	Ground Level Tree Assessment
GVA	Gross Value Added
GW	Gigawatt
HDC	Huntingdonshire District Council
HDD	Horizontal Drilling or Horizontal Directional Drilling
HDV	Heavy Duty Vehicle

Acronym	Definition
HE	Historic England
HER	Historic Environment Record
HET	Historic Environment Team
HGV	Heavy Goods Vehicle
HIA	Health Impact Assessment
HIS	Habitat Suitability Index
HLC	Historic Landscape Characterisation
HRA	Habitats Regulations Assessment
HV	High Voltage
HVAC	Heating, Ventilation and Air Conditioning
IAQM	Institute of Air Quality Management
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICOMOS	International Council on Monuments and Sites
IEMA	Institute of Environmental Management and Assessment
IES	Institute of Environmental Sciences
IMD	Indices of Multiple Deprivation
IRZ	Impact Risk Zone
ISEP	Institute of Environmental Professionals
JNCC	Joint Nature Conservation Committee
kV	Kilovolt
LA	Local Authority
LAQM	Local Air Quality Management
LBAP	Local Biodiversity Action Plan
LCA	Landscape Character Area
LCRM	Land Contamination Risk Management
LCT	Landscape Character Type
LDV	Light Duty Vehicle
LEMP	Landscape and Ecology Management Plan
LEP	Local Enterprise Partnership
LFN	Low Frequency Noise
LFP	Lithium-Iron-Phosphate
LHA	Local Highway Authority
LIR	Land Identification Report
LLCA	Local Landscape Character Area
LLFA	Lead Local Flood Authority

Acronym	Definition
LNR	Local Nature Reserve
LOAEL	Lowest Observable Adverse Effect Level
LPA	Local Planning Authority
LSOA	Lower Super Output Area
LVIA	Landscape and Visual Impact Assessment
MAGIC	Multi Agency Geographic Information for the Countryside
MfS	Manual for Streets
MHCLG	Ministry of Housing Communities and Local Government
MoD	Ministry of Defence
MSA	Mineral Safeguarding Area
MW	Megawatt
NAP	National Adaptation Programme
NBW	Nighttime Bat Walkover
NCA	National Character Area
NCN	National Cycle Network
NE	Natural England
NERC Act 2006	Natural Environment and Rural Communities Act 2006
NFCC	National Fire Chiefs Council
NGR	National Grid Reference
NHLE	National Heritage List for England
NIA	Noise Impact Assessment
NLS	National Library of Scotland
NMP	Noise Monitoring Position
NOEL	No Observed Effect Level
NOx	Nitrogen Oxides
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NPSE	Noise Policy Statement for England
NRMM	Non-Road Mobile Machinery
NSIP	Nationally Significant Infrastructure Project
NSR	Noise Sensitive Receptor
NTM	National Transport Model
NTS	Non-Technical Summary
NVZ	Nitrate Vulnerable Zone

Acronym	Definition
oAMS	Outline Archaeological Mitigation Plan
oBSMP	Outline Battery Safety Management Plan
oCEMP	Outline Construction Environmental Management Plan
oCTMP	Outline Construction Traffic Management Plan
oDEMP	Outline Decommissioning Environmental Management Plan
OEMP	Operational Environmental Management Plan
oLEMP	Outline Landscape and Ecological Management Plan
ONS	Office for National Statistics
oOEMP	Outline Operational Environmental Management Plan
oPROWMP	Outline Public Rights of Way Management Plan
OS	Ordnance Survey
OSSEMP	Outline Skills, Supply Chain and Employment Management Plan
oSMP	Outline Soil Management Plan
oSWMP	Outline Surface Water Management Plan
P-CSM	Preliminary Conceptual Site Model
PEA	Preliminary Ecological Appraisal
PEIR	Preliminary Environmental Information Report
PHI	Priority Habitat Inventory
PIEMA	Practitioner of the Institute of Environmental Management and Assessment
PINS	Planning Inspectorate
PoC	Point of Connection
PPA	Planning Performance Agreement
PPG	Planning Practice Guidance
PPV	Peak Particle Velocity
PRA	Preliminary Risk Assessment
PRF-I	Potential Roost Feature - Individual
PRF-M	Potential Roost Feature - Multiple
PRoW	Public Right of Way
pSPA	Proposed Special Protection Area
PV	Photovoltaic
PWS	Private Water Supply
RAMs	Reasonable Avoidance Measures
RBMP	River Basin Management Plan
R&E	Receipts & Expenditure
RMU	Ring main units

Acronym	Definition
RNR	Roadside Nature Reserve
RPG	Registered Park and Garden
RQF	Regulated Qualifications Framework
RVAA	Residential Visual Amenity Assessment
RVAT	Residential Visual Amenity Threshold
SA	Site Access
SEB	Statutory Environmental Body
SILC	Specialist in Land Condition
SIR	Site Identification Report
SMC	Scheduled Monument Consent
SNCI	Site of Nature Conservation Interest
SOAEL	Significant Observed Adverse Effect Level
SoCC	Statement of Community Consultation
SoS	Secretary of State
SAC	Special Areas of Conservation
SPA	Special Protection Areas
SPR	Source, Pathway, Receptor
SPZ	Source Protection Zone
SRN	Strategic Road Network
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Urban Drainage System
TA	Transport Assessment
TGN	Technical Guidance Note
TIN	Technical Information Note
TPP	Tree Protection Plan
TTWA	Travel to Work Area
UCP	Unexpected Contamination Protocol
UK BAP	UK Biodiversity Action Plan
UKCP18	UK Climate Projections 2018
UNFCCC	United Nations Framework Convention on Climate Change
UXO	Unexploded Ordnance
VOA	Valuation Office Agency
WC	Wetness Class
WFD	Water Framework Directive
WHO	World Health Organisation

Acronym	Definition
WSI	Written Scheme of Investigation
ZoC	Zone of Contribution
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility