



Connah's Quay Low Carbon Power

Environmental Statement Volume II Glossary/Abbreviations/Contents

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Environmental Statement Non-Technical Summary

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Glossary

The table below includes a glossary of the key definitions of frequently used terms within the ES. Definitions of Development Areas referred to in this Environmental Statement are shown on **Figure 3-3: Areas Described in the ES (EN010166/APP/6.3)**.

Project Elements	Definitions/Notes
Abnormal Indivisible Load (AIL) Route	The defined route for a load which cannot be split into multiple smaller loads, typically due to the risk of damage or excess cost of such a split.
Above Ordnance Datum (AoD)	A spot height (an exact point on a map) with an elevation recorded beside it that represents its height above a given datum. (Datum for Great Britain defined as mean sea level at Newlyn Observatory 1915-1921 and is standard for Ordnance Survey mapping in Great Britain.).
Access to Construction & Indicative Enhancement Area (C&IEA)	Existing road network primarily within National Grid land ownership to provide access to the Construction and Indicative Enhancement Area from the Main Development Area.
Accommodation Work Areas	The area of the Order limits that comprises the maximum extent of land required only for works and access rights to facilitate the transport of abnormal indivisible loads from sea to the Main Development Area that have been determined to require DCO powers, excluding the Construction and Operation Area.
Aesthetic value	Value deriving from the ways in which people draw sensory and intellectual stimulation from a place.
Air Quality Assessment Levels (AQALs)	The national air quality objective or environmental assessment level for each pollutant species assessed in the air quality assessment. The results of modelling undertaken to predict concentrations of pollutants are compared against these AQALs.
Air Quality Management Area (AQMA)	An area designated by the local authority to be managed, through the implementation of a Local Air Quality Management Area, to ensure that it meets national air quality objectives.
Alternative Access to Main Development Area	Alternative (emergency use only) access to the Main Development Area via the B5129 Kelsterton Road (and Access to the C&IEA above).
Annual Average Daily Traffic (AADT)	A measure of the total volume of vehicle traffic of a highway or road for a year divided by 365 days.
Archaeological Curators	The Archaeological Curators provides advice to the relevant planning authorities. For this development,

Project Elements	Definitions/Notes
	RCAHMW and Clwyd-Powys Archaeological Trust are the relevant Archaeological Curators.
Archaeological Interest	There will be archaeological interest in a heritage asset if it holds, or potentially holds, evidence of past human activity worthy of expert investigation at some point.
Atmospheric Dispersion Modelling System (ADMS)	A proprietary model for the assessment of effect of emissions to air from point sources and road sources.
Attenuation	Amount by which sound or vibration is reduced when passing through a structure or system.
A-weighting	<p>The human ear does not sense all frequencies of sound equally. Our sensitivity is at a maximum at around 2 kHz and steadily decreases above and below. Below 20 Hz and above about 20 kHz we can't hear at all.</p> <p>Within its operating limits a precision measurement microphone measures all frequencies the same so the output it produces does not reflect what we would actually hear. The A-weighting is an electronic filter that matches the response of a sound level meter to that of the human ear. When A-weighted the Sound Pressure Level L_p becomes L_{pA} (or LA) and the Sound Power Level L_W becomes L_{WA}.</p> <p>It used to be common to identify that a level was A-weighted by writing dB(A) or dBA instead of dB. These terms are now obsolete and should not be used as they conflict with other, non-acoustic, uses of decibels.</p> <p>The response of the human ear varies depending on how loud the sound is. A-weighting matches the response of a sound level meter to human hearing at low levels (~ 40-90 dB).</p>
Background assessment concentrations	Naturally occurring levels of contaminants in the environment, used as a baseline for assessing human impact, established under OSPAR guidelines.
Best Available Techniques (BAT)	The available techniques which are the best for preventing or minimising emissions and impacts on the environment. BAT is required under the Industrial Emissions Directive for certain industrial activities.
Best Available Techniques – Achievable Emission Levels	Achievable emissions values following the implementation of BAT for preventing or minimising emissions and impacts on the environment.
Burton Point Above Ground Installation (AGI)	The existing above ground installation (AGI) for the processing and control of natural gas import to the Proposed Development. (Upstream of and out with the

Project Elements	Definitions/Notes
	Proposed Development but referred to as a key component of natural gas import process).
Carbon capture	A process of capturing carbon dioxide (CO ₂) emissions from industrial processes or power plants using various methods to chemically remove CO ₂ , compresses it into a liquid, and transports it to underground storage sites. This process mitigates the release of atmospheric CO ₂ emissions, helping mitigate climate change.
Carbon Capture and Storage Association	The trade association promoting the commercial deployment of Carbon Capture, Utilisation and Storage.
Carbon Capture Plant (CCP)	Plant used to capture carbon dioxide (CO ₂) emissions produced from the use of fossil fuels in electricity generation and industrial processes.
Carbon dioxide equivalents	A metric used to compare the climate impact of different greenhouse gases. They standardize emissions based on their global warming potential (GWP). For example, methane's GWP is 28 times more than CO ₂ , but it doesn't persist as long in the atmosphere, and nitrous oxides GWP exceeds CO ₂ by almost 300 times. These gases are calculated as CO ₂ equivalents to make GHG comparisons meaningful.
Carbon Monoxide	The gas Carbon monoxide (chemical formulae CO).
Chartered Institute of Ecology and Environmental Management (CIEEM)	The Chartered Institute of Ecology and Environmental Management is the professional body which represents and supports ecologists and environmental managers, mainly in the United Kingdom but increasingly in Ireland and mainland Europe, and the rest of the world.
Climate Change	climate change impacts on the surrounding environment.
Climate change impact	An impact from a climate hazard which affects the ability of the receptor or asset to maintain its function or purpose.
Climate hazard	A weather or climate related event, which has potential to do harm to environmental or community receptors or assets, for example, increased winter precipitation.
Combined Cycle Gas Turbine (CCGT)	A process which uses both a gas turbine and a steam turbine together to produce electricity.
Combined cycle gas turbine	A highly efficient form of energy generation technology. An assembly of heat engines work in tandem using the same source of heat to convert it into mechanical energy which drives electrical generators and consequently generates electricity.
Combined Cycle Gas Turbine Generating	A type of power plant in which natural gas is initially combusted to generate hot gases which drive a turbine, which is used to generate electricity. After this, the

Project Elements	Definitions/Notes
Plant and Associated Stacks	exhaust gases are fed into a heat recovery steam generator, in which the residual heat is used to generate steam to drive an additional turbine, which is used to generate further electricity. This increases the efficiency of the use of natural gas (over combustion to generate hot gases alone) as the same fuel is used twice to generate energy without additional combustion. The associated stacks are for the release of steam and exhaust gases (outside of routine operation for the Proposed Development).
Communal value	Value deriving from the meaning of a place for the people who relate to it, or from whom it figures in their collective experience or memory.
Connah's Quay AGI	The existing AGI within the Main Development Area for the processing and control of natural gas import to the Proposed Development (and existing Connah's Quay Power Station). A new connection to this and some additional equipment will be installed for the Proposed Development.
Consequence	Any effect on the receptor or asset resulting from the climate hazard having an impact.
Construction and Indicative Enhancement Area (C&IEA)	An area of vacant land under Applicant ownership south-east of the Main Development Area which may be used for biodiversity mitigation and / or enhancement following use for construction as laydown.
Construction and Operation Area	The area that comprises the maximum extent of land potentially required temporarily and/or permanently for the construction and operation of the Proposed Development, excluding the Accommodation Works Areas.
Construction Environmental Management Plan (CEMP)	A plan to outline how a construction project will avoid, minimise or mitigate effects on the environment and surrounding area. A CEMP sets out responsibilities in regard to compliance with legislation and to implement any mitigation measures.
Countryside Council for Wales	The Countryside Council for Wales is a Welsh Assembly sponsored body responsible for wildlife conservation, landscape and countryside access in Wales.
Connah's Quay Low Carbon Power (CQLCP) Abated Generating Station	The proposed CCGT and CCS (and supporting infrastructure) extent and location within the Main Development Area (i.e. the extent of new permanent development).
Day-time Bat Walkover (DBW)	A walkover to assess the suitability of features for roosting and foraging or flight-paths for bats.

Project Elements	Definitions/Notes
Decibels, dB	<p>The decibel is not a true measurement unit nor is it exclusive to acoustics.</p> <p>The decibel is a logarithmic ratio of two values of a variable. Decibels are used because they can represent very wide ranges of ratios (from trillionths and billionths to billions and trillions) with a small range of decibel values. Decibels can be used to represent measured values by using a known reference value in the ratio. When using decibels to measure something it is therefore important to specify what variable is actually being measured and what reference level has been used. This is done by adding a reference value statement in the form “dB re x units”, where the units indicate the variable being measured and x is the reference value.</p> <p>Decibels are used in acoustics because the human ear responds to sound in a logarithmic way and the quantities measured in acoustics vary over wide ranges. However, decibels are used in acoustics to measure several different things which it is important not to confuse with each other.</p>
Decommissioning Environmental Management Plan (DEMP)	A DEMP sets out responsibilities in regard to compliance with legislation and to implement any mitigation measures during decommissioning.
Design Manual for Roads and Bridges (DMRB)	A series of 15 volumes that provide standards, advice notes and other documents relating to the design, assessment and operation of trunk roads in the United Kingdom.
Designated heritage asset	A World Heritage Site, Scheduled Monument, Listed Building, Protected Wreck Site, Registered Park and Garden, Registered Battlefield or Conservation Area designated under the relevant legislation.
Desk-based Assessment (DBA)	A programme of study of the historic environment within a specified area or site on land, the inter-tidal zone or underwater that addresses agreed research and/ or conservation objectives. It consists of an analysis of existing written, graphic, photographic and electronic information in order to identify the likely heritage assets, their interests and significance and the character of the study area, including appropriate consideration of the settings of heritage assets and, the nature, extent and quality of the known or potential archaeological, historic, architectural and artistic interest. Significance is to be judged in a local, regional, national or international context as appropriate.

Project Elements	Definitions/Notes
Domino Effect	A Major Accident or Disaster at another industrial site that may affect the Site and vice versa.
Dusk Emergence Survey	Observation (preferably using night vision aids) and acoustic surveys (using bat detectors) to count bats emerging from their roosts.
Ecological Impact Assessment (EclA)	Ecological Impact Assessment which provide practical advice for all professionals involved with ecological evaluation and assessment for proposed developments in terrestrial, freshwater, marine and coastal environments.
Effect range low	Specific contaminant concentrations representing baseline levels in an environment, used as reference values for pollution assessment.
Effect range median	Concentrations of contaminants associated with adverse effects on organisms; effect range low represents the lower limit, and effect range median represents the median concentration in environmental risk assessments.
E.g., LA90, LA10, LAF90, 5 min	It is good practice to include the letter which identifies the time constant used as this can make a significant difference to the value.
Electrical Connection Corridor	The area of the Order limits, adjacent to the Main Development Area, in which potential upgrades to existing electrical infrastructure may be undertaken by National Grid Electricity Transmission (NGET).
Enhance	To improve the quality, value or extent of something. This could be a historic asset in relation to the historic environment.
Environment Agency's Air Quality Modelling Assessment Unit	Routinely audits air quality modelling assessments.
Environmental Impact Assessment (EIA)	An analytical process that systematically examines the possible environmental consequences of the implementation of projects as specified in EIA Directive 2011/92/EU (as amended). The assessments are reported in an Environmental Statement (ES).
European Nature Information System (EUNIS)	EUNIS interlinks databases and organisations into modules on sites, species and habitat types.
Evidential value	Value deriving from the potential of a place to yield evidence about past human activity.
Existing Gas Treatment Plant	The existing facility previously used for treatment of incoming gas, which is defunct as of 2023. To be demolished in advance of Proposed Development.

Project Elements	Definitions/Notes
Global Warming Potential (GWP)	Measure of how much energy the emissions of 1 tonne of gas will absorb over a given period of time, relative to the emissions of 1 tonne of CO ₂ .
Greenhouse gas emissions (GHG)	Gases which trap heat within Earth's atmosphere, contributing to the greenhouse effect. Notable gases include CO ₂ , methane, nitrous oxide, fluorinated gases.
Ground Level Tree Assessment (GLTA)	A ground-level search to look for PRFs in trees and describe them.
Habitats Regulations Assessment (HRA)	The assessment of the impacts of implementing a plan or policy on a Natura 2000 site required under the Habitats Directive.
Hazard	Something with the potential to cause harm.
Heavy Goods Vehicle (HGV)	Vehicles with a gross weight in excess of 3.5 tonnes.
Heritage Impact Assessment	Heritage impact assessment is a structured process to ensure that the significance of a historic asset is taken into account in the development and design of proposals for change. It is a core part of the design process, which tests whether the proposals for change to a historic asset are appropriate by assessing their impact on its significance.
Heritage Impact Statement	The results of a heritage impact assessment are summarised in a heritage impact statement which is submitted with an application for listed building consent, conservation area consent or, where requested, scheduled monument consent. It provides an explanation of the proposed work and the reasoning for it, an assessment of the significance of the asset, and the impact of the proposed work, design options and preferred approach, and an access statement, if required. Heritage impact statements are proportionate to the significance of the asset, and the degree of change proposed.
Highways England	Operate, maintain and improve England's motorways and major A-roads.
Historic asset	An identifiable component of the historic environment. It may consist or be a combination of an archaeological site, a historic building or area, historic park and garden or a parcel of historic landscape. Nationally important historic assets will normally be designated.
Historic Environment	All aspects of the environment resulting from the interaction between people and places through time, including all surviving physical remains of past human

Project Elements	Definitions/Notes
	activity, whether visible, buried or submerged, and deliberately planted or managed.
Historic Environment Record (HER)	Information services that seek to provide access to comprehensive and dynamic resources relating to the historic environment of a defined geographic area for public benefit and use.
Historic value	Value deriving from the ways in which past people, events and aspects of life can be connected through a place to the present.
Hydroxyl	The chemical functional group Hydroxyl (OH).
Impact	A change relative to the existing or future baseline conditions.
In situ	In situ refers to an artefact that has not been moved from its original place of deposition.
In-combination	Combined effect of the impacts of the Scheme and potential.
Index	a value based on the mathematical processing of raw data.
Indicator	a value used to indicate the likelihood of a particular response of effect eg. L10,18hr is an index based on statistical processing of sound pressure data that is used as an indicator for road traffic noise response.
Industrial Emissions Directive	European Union Directive committing member states to control and reduce the impact of industrial emissions on the environment through the use of BAT.
Institute of Air Quality Management (IAQM)	Professional body for air quality air professionals.
International Council for the Exploration of the Sea (ICES)	ICES provide scientific advice on marine ecosystems fisheries.
International Maritime Organization (IMO)	The IMO is a United Nations specialized agency with responsibility for the safety and security of shipping, and the prevention of marine and atmospheric pollution by ships.
Joint Nature Conservation Committee (JNCC)	The Joint Nature Conservation Committee is the public body that advises the UK Government and devolved administrations on UK-wide and international nature conservation.
LAN,T LAFN,T	The A-weighted percentage exceedance sound pressure level (LAN,T), the A-weighted percentage exceedance sound pressure level with a FAST time constant (LAFN,T).

Project Elements	Definitions/Notes
Large Combustion Plant	A combustion plant with a thermal input capacity of 50MW or greater.
Laydown	A formalised construction compound or working area within the period of construction, or an area of land under temporary use within period of construction. Laydown areas may be restored or enhanced following construction or, separately, used for permanent development at a later stage.
Level	used solely to describe values measured in decibels.
Level of Consequence	The severity and duration of harm if a MA&Ds event were to occur.
Light Duty Vehicles	Vehicle with a gross weight of less than 3.5 tonnes.
Likelihood	Provides calibrated language for describing quantified uncertainty. It can be used to express a probabilistic estimate of the occurrence of a single event or of an outcome such as a climate parameter or an observed trend.
Liverpool Bay CCS Limited's Flint AGI	A proposed AGI (likely to be completed ahead of construction) to be constructed as part of the HyNet Carbon Dioxide Project for the processing and control of CO ₂ export to Point of Ayr Gas Terminal.
LN,T	The percentage exceedance sound pressure level (LN,T).
Local Wildlife Site (LWS)	Defined areas, identified and selected for their nature conservation value, based on important, distinctive and threatened habitats and species.
Loudness	is the human perception of the level of sound.
Lp	Sound Pressure Level is expressed in decibels with a reference level of 20 mPa (Lp in dB re 20 µPa).
LW	Sound Power Level is expressed in decibels with a reference level of 1 pW (LW in dB re 1 pW). In the US a reference of 100 fW is sometimes used.
Main Development Area	The area of the Proposed Development Site containing the majority of permanent development, including the Combined Cycle Gas Turbine Generating Plant, Post-Combustion Carbon Capture Plant and Associated Stacks, and supporting development such as administrative facilities, stores, and above-ground installations for the management of CO ₂ export (among other supporting development), in addition to areas of temporary construction laydown, access roads, and utilities interfaces.
Maintenance Laydown Area	The extent of land, within the Main Development Area, which is to form an area of permanent hardstanding

Project Elements	Definitions/Notes
	and/or modular structures to accommodate additional temporary contractors during maintenance outages or for purposes supporting the operation of the Proposed Development, and which may be used as laydown during construction of the Proposed Development. Surface water drainage will be installed and, if required, chemical storage and containment facilities for hazardous materials will be installed for the Maintenance Laydown Area.
Major Accident	An event (i.e. major road traffic incident) that threatens immediate or delayed serious effects to human health, welfare and/or the environment and requires the use of resources beyond those of the client or its appointed representatives (i.e. contractors) to manage.
Major Accident Hazard	Something with the potential to cause a major accident.
Major Accident Hazard Pipeline	Pipelines which convey a dangerous fluid that has the potential to cause a major accident.
Major Disaster	A man-made/external hazard (such as an act of terrorism) or a natural hazard (such as an earthquake) with the potential to cause an event or situation, which meets the definition of a major accident.
Management Units	Management Units have been defined by the Inter-Agency Marine Mammal Working Group for the management of cetaceans in UK waters.
Marine Conservation Zone	An area that protects a range of nationally important, rare or threatened habitats and species.
Marine heritage asset	As heritage asset above, relevant to the marine heritage assessment. Site types include shipwreck material, aircraft crash site material, prehistoric sites and artefacts, palaeoenvironmental evidence, evidence of past use of coastal, intertidal and/or submerged areas (such as fish traps, harbour installations, etc.).
Marine Protected Area	A section of the ocean where a government has placed limits on human activity for conservation purposes.
mean high-water springs (MHWS)	The height of mean high water springs is the average throughout a year of the heights of two successive high waters during those periods of 24 hours (approximately once a fortnight) when the range of the tide is greatest.
Megawatt hour	A standard unit of energy measurement which represents the amount of electricity generated or consumed over a one-hour period.
Mitigation	Mitigation is the action to take to avoid or minimize any harm to the significance of a historic asset.

Project Elements	Definitions/Notes
Multi Agency Geographic Information for the Countryside	A online interactive database map which provides authoritative geographic information about the natural terrestrial and marine environment.
N = %age value, 0-100	This is the sound pressure level exceeded for N% of time period T. eg. If an A-weighted level of x dB is exceeded for a total of 6 minutes within one hour, the level will have been above x dB for 10% of the measurement period. This is written as LA10,1hr = x dB.
National Marine Fisheries Service	A federal agency in the United States responsible for the management of US national marine resources, including the conservation and management of marine fisheries.
National Oceanic and Atmospheric Administration	A scientific and regulatory agency in the UK, whose responsibilities include the control of weather forecasting, oceanic and atmospheric condition management, fishery management and protection of marine mammals.
Natural Environment and Rural Communities (NERC) Act	The NERC act makes provisions for bodies concerned with the natural environment and rural communities.
Net Zero	The balance between the amount of GHG emissions produced and the amount removed from the atmosphere. Achieving net zero involves a combination of emission reduction and emission removal.
Night-time Bat Walkover (NBW)	Observation and acoustic (manual or static) surveys using bat detectors to establish species and a measure of bat activity using transects.
Nitric Oxide	The gas Nitric Oxide (chemical formula NO).
Nitrogen Dioxide	The gas Nitrogen Dioxide (chemical formula NO ₂).
Noise	has no strict definition and is often used interchangeably with sound however it is usually taken to mean unwanted sound.
Non-Road Mobile Machinery (NRNM)	Machinery typically used off the road, such as construction machinery.
Order limits	The boundary that includes all aspects of the Proposed Development including the CCGT and CCS site, the laydown areas, Repurposed CO ₂ Connection Corridor, Proposed CO ₂ Connection Corridor, Electrical Connection Corridor, Water Connection Corridor, Access to Construction and Indicative Enhancement Area, Alternative Access to Main Development Area, Surface Water Outfall Area, and Construction and Indicative Enhancement Area, as well as the Accommodation Works Areas to facilitate the transport of AIL during construction.

Project Elements	Definitions/Notes
Permanent Threshold Shift	A permanent elevation in hearing threshold which can occur due to several causes but is most often the result of intense and / or repeated noise exposures.
Phased Construction	The scenario in which Train 1 is constructed and made operational prior to the construction of Train 2, after which Train 2 is constructed.
Physical Processes	With regard to the technical chapter and assessment of the PEIR, the assessment of changes to physical processes of the marine environment that arise due to the interaction between coastal/estuarine land (solid) and coastal/estuarine waters (liquid), including the estuary/river bed morphology, sediment transport and depositional patterns, and the water column.
PM ₁₀	Particulate Matter 10 µm or less.
PM _{2.5}	Particulate Matter 2.5 µm or less.
Point of Ayr Gas Terminal	The final land-based export point for CO ₂ transported via the HyNet Carbon Dioxide Pipeline (including the Proposed Development), before the CO ₂ is then exported to permanent undersea storage.
Post-Combustion Carbon Capture Plant and Associated Stacks	An installation to enable the removal of a high percentage (95%) of carbon dioxide (CO ₂) from the exhaust gases of the Combined Cycle Gas Turbine Generating Plant. For the Proposed Development, this involves the cooling and treatment of the exhaust gases with a proprietary alkaline solvent, which itself is recovered as part of the process. The captured CO ₂ is then compressed to a specific pressure prior to export from the Main Site and Proposed Development. The associated stacks are for the release of exhaust gases following the capture of CO ₂ .
Potential Roost Feature (PRF) Aerial Inspection	An elevated search to inspect PRFs in trees either by climbing or the use of equipment such as ladders.
Preliminary Roost Appraisal (PRA)	Detailed inspection of a structure or tree to look for features that bats could use for entry/exit and roosting and to search for signs of bats.
Preservation	To keep safe from harm.
Proposed CO ₂ AGI	The new proposed AGI to process and control the export of CO ₂ from the Main Development Area, adjacent to the CQLCP Abated Generating Station.
Proposed CO ₂ Connection Corridor	Area of the Order limits in which a new pipeline (approximately 422 m in length) is to be constructed for the export of CO ₂ from the Proposed Development and associated temporary construction laydown areas, in addition to a small extent of the existing Repurposed CO ₂ Connection. It is to connect between the Repurposed

Project Elements	Definitions/Notes
	CO ₂ Connection (Corridor) and Liverpool Bay CCS Limited's Flint AGI, proposed as part of the HyNet CO ₂ Pipeline Project. Works within the Proposed CO ₂ Connection Corridor are to be undertaken by Liverpool Bay CSS Ltd. 'Proposed CO ₂ Connection' refers to the new pipeline itself.
Protected wreck	The Protection of Wrecks Act 1973 allows the Welsh Ministers to designate a site around a wreck to prevent uncontrolled diving and interference. Designated sites are identified as being likely to contain the remains of a vessel, or its contents, which are of historical, artistic or archaeological importance.
Repurposed CO ₂ Connection Corridor	Area of the Order limits in which an existing pipeline is to be repurposed for the export of CO ₂ from the Proposed Development, in addition to associated minor, small scale temporary construction areas (if required). It is to connect between the Proposed CO ₂ Connection Corridor and the Main Development Area.
Repurposed CO ₂ Connection Corridor	The area surrounding the repurposed existing gas pipeline that interfaces with the Existing GTP AGI or Proposed CO ₂ AGI (Main Development Area) at one end, and the Proposed CO ₂ Corridor at the other. Unless otherwise stated (as justified within the technical chapter), this forms part of the Order limits but does not form part of the ES Assessment Area.
Risk Event	An identified, unplanned event, which is considered relevant to the development and has the potential to result in a major accident and/or disaster, subject to assessment of its potential to result in a significant adverse effect on an environmental receptor.
Scheduled monument	A monument which is included in the Schedule of monuments compiled and maintained by the Welsh Ministers under the Ancient Monuments and Archaeological Areas Act 1979.
Scope 1 emissions	Direct emissions that come from sources owned or controlled by the Client.
Scope 3 emissions	Indirect emissions originating from sources outside of the Client's control. These emissions occur in the value chain, including both upstream and downstream activities.
Selective Catalytic Reduction (SCR)	The removal of nitrogen oxides from the flue gas.
Setting of a heritage asset	The setting of a historic asset includes the surroundings in which it is understood, experienced and appreciated, embracing present and past relationships to the surrounding landscape. Its extent is not fixed and may

Project Elements	Definitions/Notes
	change as the asset and its surroundings evolve. Setting is not itself a historic asset, though land within a setting may contain other historic assets.
Significance	The sum of the cultural and natural heritage values of a place, often set out in a statement of significance.
Significant	Extensive or important enough to merit attention.
Simultaneous Construction	Scenario in which both Trains are constructed at the same time. (Renamed from Single Phase Construction.)
Site of Special Scientific Interest (SSSI)	Nationally designated Sites of Special Scientific Interest, an area designated for protection under the Wildlife and Countryside Act 1981 (as amended), due to its value as a wildlife and/or geological site.
Sound	is used to describe the physical phenomenon of the transmission of energy through gaseous or liquid media via rapid fluctuations in pressure.
Sound Power Level	This is the total amount of sound produced by a source. It cannot be measured directly but it can be calculated from Sound Pressure Level measurements in known conditions. It can be used to predict the Sound Pressure Level at any point.
Sound Pressure Level	This is the basic measure of how much sound there is at a given location. It is a measure of the size of the pressure fluctuations in the air that we perceive as sound.
Special Area of Conservation (SAC)	Protected areas in the UK and Ireland designated under the Conservation of Habitats and Species Regulations 2017. High quality conservation sites that are protected under the European Union Habitats Directive, due to their contribution to conserving those habitat types that are considered to be most in need of conservation.
Special Protection Area (SPA)	Strictly protected sites classified in accordance with article 4 of the EC Wild Birds Directive. Special Protection Areas are Natura sites which are internationally important sites for the protection of threatened habitats and species.
Species of Principal Importance	Species which are most threatened, in greatest decline or where the UK holds a significant proportion of the world's total population.
Sulphur Dioxide	The gas sulphur dioxide (chemical formulae SO ₂).
Surface Water Outfall Area	The area of the Order Limits, adjacent to the Main Development Area, in which a new outfall to the Dee Estuary for surface water drainage from the CQLCP Abated Generating Station will be installed adjacent to the existing outfall and outfall for the Kelsterton Brook culvert. The existing and proposed outfalls themselves are

Project Elements	Definitions/Notes
	referred to as the Existing Surface Water Outfall and Proposed Surface Water Outfall, respectively.
T = measurement time	LA0 (the level exceeded for 0 % of the time) is equivalent to the L _{Amax} and LA100 (the level exceeded for 100 % of the time) is equivalent to the L _{Amin} .
Temporary Threshold Shift	A recoverable elevation in hearing threshold. This most commonly results from long-term exposure to sounds which are not high enough to result in PTS but can still result in injury.
Territorial waters	The UK territorial waters extend up to 12 nautical miles from the coastline.
The Applicant	Uniper UK Limited.
The Department of Business, Energy and Industrial Strategy	BEIS Department of the UK Government.
The Proposed Development	The works to be undertaken as part of the Connah's Quay Low Carbon Power Project. This will be defined in the first paragraph of the Introduction chapter but should thereafter be referred to as the 'Proposed Development'.
Tolerable	The levels of risk are generally regarded as adequately controlled and comparable to those that people regard as trivial in their daily lives. Further action to reduce risks is not normally required, as such they are generally considered to be broadly acceptable.
Tolerable if as low as reasonably practicable (ALARP)	People are prepared to tolerate this level of risk in order to secure benefits, such as employment or infrastructure. The expectation is that risks are properly assessed and kept as low as reasonably practicable through the application of appropriate mitigation, and risks are kept under review.
Tonal Sound	Any sound can be defined by its frequency content. Some sounds comprise just one discrete frequency (tonal sounds). Others are distributed over wide frequency ranges (broad band sound).
Train	Each Train comprises the assets required within the Main Development Area for the CCGT plant with CCP to operate, including supporting buildings, structures, infrastructure, and staff facilities. Once commissioned, each Train will operate largely independently; however, there will be scenarios in which outages affect shared infrastructure and, therefore, both Trains, if installed.
UK Carbon Budget	A legally binding framework which places a restriction on the total amount of GHGs the UK can emit over a 5-year

Project Elements	Definitions/Notes
	period. Each carbon budget acts as a steppingstone toward the 2050 emission reduction target.
Unacceptable / Intolerable	A risk falling into this region is regarded as unacceptable, whatever the level of benefits associated with the activity.
Underwater Sound	The production and transmission of sound generated within the water column which has the potential to affect marine organisms.
Watching brief	A formal programme of observation and investigation conducted during any operation where there is a possibility that archaeological deposits may be disturbed or destroyed. The programme will result in the preparation of a report and archive to make available information about the archaeological resource existing on a site.
Water Connection Corridor	The area of the Order limits, adjacent to the Main Development Area, required for works at the cooling water intake and outfall, comprising replacement of eel screens and minor refurbishment works. Aside from mooring of material/support vessels, all in-river works will be within the existing footprint of the intake structure and directly mounted to the existing structure (not the bed). Pipe and foot-only access route also included within Corridor.
Wave rose	A graphical presentation of wave parameters (i.e. height) showing the distribution and magnitude over the range of directional sectors.
Weighted	Values modified to reflect sensitivities at particular frequencies.
Welsh Carbon Budget	A statutory framework that sets limits on GHG emissions in Wales over a specific period to achieve net zero emissions by 2050. It forms part of Wales's commitment to tackling climate change. Each budget covers a five-year span.
Written Scheme of Investigation (WSI)	A written statement on the objectives of a project, including methods, timetable and resources. These form the framework for the execution of the project through to completion, set out in sufficient detail to be quantifiable, implemented and monitored. Normally prepared by an archaeologist or organisation undertaking the fieldwork, frequently in response to a brief/project outline or specification. The project design may be updated following post-excavation assessment.

List of Key Abbreviations

Abbreviation / Frequently used term	Definition/Notes
1D	One dimensional
2D	Two dimensional
3D	Three Dimensional
AA	Annual Average
AADT	Annual Average Daily Traffic
AADT	Annual Average Daily Total
AAR	Average Annual Rainfall
AAWT	Annual Average Weekday Traffic
ADMS	Atmospheric Dispersion Modelling System
AEAT	AEA Technology
AEP	Annual Exceedance Probability
AGI	Above Ground Installation
AGL	Above Ground Level
AIA	Arboricultural Impact Assessment
AIL	Abnormal Indivisible Load
Al	Aluminium
ALARP	As Low as Reasonably Practicable
ALC	Agricultural Land Classification
ALG	Cover of filamentous green algae
ALSF	Aggregate Levy Sustainability Fund
Am	Annual mean
AOD	Above Ordnance Datum
AONB	Areas of Outstanding Natural Beauty
AoS	Appraisal of Sustainability
APAS	Cheshire Archaeology Planning Advisory Service
APFP	Applications: Prescribed Forms and Procedure
APIS	Air Pollution Information System
AQAL	Air Quality Assessment Level
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area

Abbreviation / Frequently used term	Definition/Notes
AQMAU	Air Quality Modelling and Assessment Unit
AQS	Air Quality Strategy
ASCOBANS	The Agreement on the Conservation of Small Cetaceans of the Baltic and North Seas
ASCV	Areas of Special County Value
ASCV	Area of Special County Value
ASPT	Average Score Per Taxon
ATC	Automatic Traffic Count
ATO	Accumulated Temperature
ATT	Admiralty Tide Tables
AURN	Automatic Urban and Rural Network
AV	All Vehicle
BAC	Background Assessment Concentrations
BAEP	Best Achievable Eel Protection
BAI	Bat Activity Index
BAP	Biodiversity Action Plan
BAT	Best Available Technique
BAT-AEL	Best Available Technique-Associated Emission Levels
BAT-AELs	BAT-Associated Emission Levels
BCT	Bat Conservation Trust
BCUHB	Betsi Cadwaladr University Health Board
BDPE	Bromo diphenyl ether
BEIS	Business, Energy and Industrial Strategy
BESS	Battery Energy Storage System
bgl	below ground level
BGS	British Geological Survey
BIS	Business, Innovation and Skills
BMV	Best and Most Versatile
BNL	Basic Noise Level
BoCC	Birds of Conservation Concern
BOD	biochemical oxygen demand
BoM	Bill of Materials

Abbreviation / Frequently used term	Definition/Notes
BP	before present
BPM	Best Practicable Means
BREF	Best Available Techniques Reference Document
BRefs	European Best Available Technique reference documents
BRES	Business Register and Employment Survey
BS	British Standard
BSI	British Standards Institute
BTO	British Trust for Ornithology
BVS	Block Valve Stations
BWM	Ballast Water and Sediments
C&D	Construction and Demolition
C&IEA	Construction and Indicative Enhancement Area
CA	Competent Authority
CAA	Civil Aviation Authority
CAPEX	capital expenditure
CAR-SOIL	Control of Asbestos Regulations
CBC	Common Bird Census
CC	Climate Change
CCC	Climate Change Committee
CCGT	Combined Cycle Gas Turbine
CCI	Community Conservation Index
CCP	Carbon Capture Plant
CCR	Climate Change Resilience
CCR	Carbon Capture Ready
CCRA	Climate Change Resilience Assessment
CCS	Carbon Capture and Storage
CCS	Current Conservation Status
CCUS	Carbon Capture Utilisation and Storage
CCW	Countryside Council for Wales
CD	Chart Datum
CDM	Construction Design Management

Abbreviation / Frequently used term	Definition/Notes
CDOIF	Chemicals and Downstream Oil Industries Forum
CEC	Cranfield Environment Centre
Cefas	Centre for Environment, Fisheries and Aquaculture Science
CEMP	Construction Environmental Management Plan
CEMS	Continuous Emissions Monitoring System
CERC	Cambridge Environmental Research Consultants
CETaSS	Cell Eleven Tide and Sediment Transport Study
CFA	continuous flight auger
CFB	Coastal Flood Boundaries
CH ₄	Methane
CHP	Combined Heat and Power
CIBSE	Chartered Institution of Building Service Engineers
CIEEM	Chartered Institute of Ecology and Environmental Management
CIEH	Chartered Institute of Environmental Health
CIfA	Chartered Institute for Archaeologists
CIMP	Collections, Infrastructure and Markets Sector Plan
CIPD	Chartered Institute of Personnel and Development
CIRIA	Construction Industries Research and Information Association
CITES	Convention on the International Trade in Endangered Species
CJC	Corporate Joint Committee
CL	critical levels
CL	Clay Loam
CL:AIRE	Contaminated Land: Applications in Real Environments
cm/s	centimeters per second
CMS	Convention on Migratory Species
CNCCNI	Council for Nature Conservation and the Countryside Northern Ireland
CNP	Critical National Priority
CO	Carbon Monoxide
CO ₂	Carbon Dioxide

Abbreviation / Frequently used term	Definition/Notes
CoCP	Code of Construction Practice
COD	chemical oxygen demand
Cofnod	North Wales Environmental Information Service
COMAH	Control of Major Accident Hazard
COPA	Control of Pollution Act
CoPC	Contaminants of Potential Concern
COSHH	Control of Substances Hazardous to Health
CPAT	Clwyd-Powys Archaeological Trust
CPHER	Clwyd-Powys Historic Environment Record
CPHLC	Clwyd-Powys Historic Landscape Characterisation
CPNI	Centre for Protection of National Infrastructure
CQLCP	Connah's Quay Low Carbon Power
CQN	Connah's Quay North
CR	Critically Endangered
CRAPW	Central Register for Aerial Photography Wales
CRDV	Clwydian Range and Dee Valley
CRoW	Countryside and Rights of Way
CRT	Canal & River Trust
CRTN	Calculation of Road Traffic Noise
cSAC	candidate SAC
CSAI	Cranfield Soil and AgriFood Institute
CSM	Conceptual Site Model
CTMP	Construction Traffic Management Plan
CTWP	Construction Workers Travel Plan
CWaC	Cheshire West and Cheshire
CWMP	Construction Workers Management Plan
DAM	Development Advice Map
DAS	Discretionary Advice Serve
dB	Decibels
DBA	Desk Based Assessment
DBW	Daytime Bat Walkover
DC	Direct Current

Abbreviation / Frequently used term	Definition/Notes
DCC	Direct Contact Cooler
DCC	Denbighshire County Council
DCO	Development Consent Order
DECC	Department of Energy and Climate Change
DEFRA	Department for Environment, Food and Rural Affairs
DEMP	Decommissioning Environmental Management Plan
DEMP	Demolition Environmental Management Plan
DESNZ	Department for Energy Security and Net Zero
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
DNS	Deeside Naturalists Society
DNS	Development of National Significance
DoW CoP	Definition of Waste Code of Practice
DoWCop	Definition of Waste: Code of Practice
DPA	Dispatchable Power Agreement
DPA	Discretionary Planning Advice
DPH	Director of Public Health
DrWPA	Drinking Water Protection Area
DSAP	Dee Stock Assessment Programme
DSEAR	Dangerous Substances and Explosive Atmospheres Regulations
DTM	Digital Terrain Model
DUKES	Digest of United Kingdom Energy Statistics
DWS	drinking water standard
EA	Environment Agency
EALs	Environmental Assessment Levels
EB	East Bound
EC	European Commission
EclA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
eDNA	environmental DNA
EEA	European Economic Area

Abbreviation / Frequently used term	Definition/Notes
EEA	European Economic Association
EHA	Explosion Hazard Analysis
EIA	Environmental Impact Assessment
EIA	Ecological Impact Assessment
ELV	Emission Limit Value
EMF	Electromagnetic Field
EMS	Environmental Management System
EN	Endangered
EN-1	The National Policy Statement for Energy
EN-2	The National Policy Statement for Natural Gas Electricity Generating Infrastructure
EN-4	The National Policy Statement for Natural Gas Supply Infrastructure and Gas and Oil Pipelines
EN-5	The NPS for Electricity Networks Infrastructure
EPC	Engineering, Procurement, and Construction
EPR	Environmental Permitting (England and Wales) Regulations
EPS	European Protected Species
EPSML	European Protected Species Mitigation Licences
EQR	Ecological Quality Ratio
EQS	Environmental Quality Standards
ERL	Effect Range Low
ERM	Effect Range Medium
ERM	Effect Range Median
ES	Environmental Statement
ESD	Effort Sharing Decision
ESHCL	Extended Study of Historic Characterisation Landscapes
ESO	Energy System Operator
ESO	Environmental Site Officer
ETM	Etruria Formation
EU	European Union
EUNIS	European Nature Information System

Abbreviation / Frequently used term	Definition/Notes
EWC	European Waste Catalogue
FAR	Further Assessment Required
FBA	Freshwater Biological Association
FCA	Flood Consequence Assessment
FCC	Flintshire County Council
FCD	Field Capacity Duration
FCS	Favourable Conservation Status
FEED	Front-End Engineering Designs
FEH	Flood Estimation Handbook
FES	Future Energy Scenarios
FHA	Fire Hazard Analysis
FHT	Freshwater Habitats Trust
FLDP	Flintshire Local Development Plan
FLL	Functionally Linked Land
FMP	Flood Modeller Pro
FRAP	Flood Risk Activity Permit
FRMP	Flood Risk Management Plan
FSR	Flood Studies Report
FSSR	Fine Sediment Sensitivity Rating
FSZL	Fine Sandy Silt Loam
FTE	Full-Time Employment
FTE	Full Time Equivalent
FWMA	Flood Water Management Act
FWMS	Flintshire Waste Management Strategy
FWRA	Foundation Works Risk Assessment
GAC	generic assessment criteria
GaGC	Geology and Ground Conditions
GB	Great Britain
G-BASE	Geochemical Baseline Survey of the Environment for topsoil
GCN	Great Crested Newts
GCR	Geological Conservation Review sites

Abbreviation / Frequently used term	Definition/Notes
GCSE	General Certificate of Secondary Education
GDHI	Gross Disposable Household Income
GDR	Geotechnical Design Report
GES	Good Environmental Status
GHG	Greenhouse Gas
GI	Ground Investigation
GIR	Ground Investigation Report
GLTA	Ground Level Tree Assessment
GLVIA3	Guidelines for Landscape and Visual Impact Assessment, Third Edition
GN	Guidance Note
GP	General Practice
GPA	Good Practice Advice
GPP	Guidance for Pollution Prevention
GPR	Ground Penetrating Radar
GQRA	Generic Quantitative Risk Assessment
Gradko	Gradko International Ltd
GS	Gwespyr Sandstone
GSMR	Gas Safety (Management) Regulations
GTP	Gas Treatment Plant
GVA	Gross Value Added
GVLIA3	Guidelines for Landscape and Visual Impact Assessment, Third Edition
GWDTE	Ground Water Dependent Terrestrial Ecosystem
ha	hectare
HAT	Highest Astronomical Tide
HAWG	Herring Assessment Working Group
HAZID	Hazard Identification
HAZOP	Hazard and Operability
HC	Hydrocarbons
HCA	Homes and Communities Agency
HDD	Horizontal Directional Drilling
HDV	Heavy Duty Vehicles

Abbreviation / Frequently used term	Definition/Notes
HE	Historic England
HER	Historic Environment Record
HFCs	Hydrofluorocarbons
HGV	Heavy Goods Vehicle
HIA	Health Impact Assessment
HIPPS	High Integrity Pressure Protection System
HIS	Habitat Suitability Index
HLC	Historic Characterisation Landscapes
HMB	Heat and Material Balance
HMISO	His Majesty's Stationery Office
HPMAs	Highly Protected Marine Areas
HRA	Habitats Regulations Assessment
HRSG	Heat Recovery Steam Generator
HSA	Hazardous Substances Authority
HSC	Hazardous Substances Consent
HSE	Health and Safety Executive
HSL	Health and Safety Laboratory
HV	High Voltage
HV	Heavy Vehicle
HVD	Highly Vulnerable Development
IAMMWG	Inter-Agency Marine Mammal Working Group
IAQM	Institute of Air Quality Management
ICCI	Combination Climate Change Impact / In-Combination Climate Impact
ICE	Inventory of Carbon and Energy
ICES	International Council for the Exploration of the Sea
ICOMOS	International Council on Monuments and Sites
ICSS	Integrated Control and Safety Systems
ID	identification
IDB	Internal Drainage Boards
IEA	Indicative Enhancement Area
IED	Industrial Emissions Directive

Abbreviation / Frequently used term	Definition/Notes
IEF	Important Ecological Features
IEFs	Important Ecological Features
IEMA	Institute of Environmental Management and Assessment
IERRT	Immingham Eastern Roll On Roll Off Terminal
IGET	Immingham Green Energy Terminal
IMO	International Maritime Organisation
IMS	Industrial Methylated Spirit
INNS	Invasive Non-Native Species
IOS	International Organization for Standardization
IPCC	Intergovernmental Panel on Climate Change
IRR	Internal Rate of Return
ISAP	International Society for Archaeological Prospection
ISEP	Institute of Sustainability and Environmental Professionals
ISIS	Invertebrate Species-habitat Information System
ISMP	Invasive Species Management Plan
ISO	International Organisation for Standardisation
IUCN	International Union for the Conservation of Nature
JNAPC	Joint Nautical Archaeology Policy Committee
JNCC	Joint Nature Conservation Committee
km	kilometer
kV	kilovolt
LandIS	Land Information System
LAQM	Local Air Quality Management
LAT	lowest Astronomical Tide
LBAP	Local Biodiversity Action Plans
LCA	Landscape Character Area
LCA	Local Character Area
LCP	Large Combustion Plants
LCRM	Land Contamination Risk Management
LDP	Local Development Plan
LDV	Light Duty Vehicles

Abbreviation / Frequently used term	Definition/Notes
LEMP	Landscape and Ecological Management Plan
LERC	Local Environmental Records Centre
LGM	late glacial maximum
LGS	Local Geological Sites
LGV	Light Goods Vehicle
LHA	Local Highway Authority
LiDAR	Light Detection and Ranging
LIFE	Lotic-invertebrate Index for Flow Evaluation
LLFA	Lead Local Flood Authority
LNG	Liquified Natural Gas
LNR	Local Nature Reserves
LNS	Local Nature Sites
LWS	Local Wildlife Sites
LPA	Local Planning Authority
LS	Loamy Sand
LSOA	Layer Super Output Area
LTP	Local Transport Plan
LVIA	Visual Impact Assessment
Lw	sound power level
LWS	Local Wildlife Site
m	meter
m AOD	m Above Ordnance Datum
m bgl	metres below ground level
m ODN	meters Above Ordnance Datum
m ³	cubic meter
m ³ /s	cubic meters per second
MA&Ds	Major Accidents and Disasters
MAC	Maximum Acceptable Concentration
MAD	Major Accidents and Disasters
MAFF	Ministry of Agriculture Fisheries and Food
MAGIC	Multi Agency Geographic Information for the Countryside

Abbreviation / Frequently used term	Definition/Notes
MAH	Major Accident Hazard
MAPP	Major Accident Prevention Policy
MarESA	Marine Evidence Based Sensitivity Assessment
MarLIN	Marine Life Information Network
MATTE	Major Accidents to the Environment
max.	maximum
MCA	Marine Character Area
MCA	Maritime and Coastguard Agency
MCA	Mineral Consultation Areas
MCAA	Marine and Coastal Access Act
MCZ	Marine Conservation Zone
MDPOT	Moisture Deficit Potatoes
MDWHT	Moisture Deficit Wheat
MEA	Mono-Ethanolamine
MEPE	Mostyn Energy Park Extension
Mg	Magnesium
mg/l	milligrams per litre
MHWN	Mean High Water Neaps
MHWS	Mean High Water Spring
MHWST	Mean High Water Spring Tide
MID	Method Implementation Document
ML	megalitres
ML/h	megalitres per hour
MLWN	Mean Low Water Neaps
mm	millimeter
MMO	Marine Management Organisation
MMP	Materials Management Plan
MNCR	Marine Nature Conservation Review
Mo	Molybdenum
MPA	Marine Protected Area
MPA	Mineral Products Association
MPAs	Minerals Planning Authorities

Abbreviation / Frequently used term	Definition/Notes
MPH	miles per hour
MPS	Marine Policy Statement
MRA	Mining Remediation Authority
MS	Magnitude Surveys Ltd
MSA	Mineral Safeguarding Area
MSL	Mean Sea Level
MSOA	Middle Super Output Area
Mt	million tonnes
MTBE	methyl tert-butyl ether
mtCO _{2e}	megatonnes of CO ₂ equivalent
MU	Management Unit
MW	megawatt
MWe	Megawatts Electrical Output
MWe	Megawatt electric
N ₂ O	Nitrous Oxide
NaCTSO	National Counter Terrorism Security Office
NatTS	National Transmission System
NB	North Bound
NBB	Net Benefit for Biodiversity
NBN	National Biodiversity Network
NBW	Night-time Bat Walkover
NCA	National Character Area
NCLA	National Landscape Character Areas
NCN	National Cycle Network
NCR	National Cycle Route
NDF	National Development Framework
NDMA	N-nitrosodimethylamine
NE	Natural England
NERC	Natural Environment and Rural Communities
NESO	National Energy System Operator
NEXA	Network Exit Agreement
NF ₃	Nitrogen Trifluoride

Abbreviation / Frequently used term	Definition/Notes
NFG	Number of functional groups
NFMS	National Marine Fisheries Service
NGET	National Grid Electricity Transmission plc
NGT	National Gas Transmission plc
NH ₃	Ammonia
NHBC	National House Building Council
NHLE	National Heritage List for England
NJUG	National Joint Utilities Group
NLCA	National Landscape Character Area
nm	nautical mile
NMR	National Monument Record
NMRW	National Monuments Record of Wales
NMW	National Museum Wales
NMWTRA	North and Mid Wales Trunk Road Agent
NNR	National Nature Reserves
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxide
NP	National Plan
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NR	Nationally Rare
NRA	Navigational Risk Assessment
NRFA	National River Flow Archive
NRMM	Non-Road Mobile Machinery
NRW	Natural Resources Wales
NRW	Notifiable Reportable Work
NS	NatureScot
NS	Nationally Scarce
NSIP	Nationally Significant Infrastructure Project
NSR	Noise Sensitive Receptor
NT	Near Threatened

Abbreviation / Frequently used term	Definition/Notes
NTAXA	Number of macrophyte taxa
NTS	Non-Technical Summary
NVC	National Vegetation Classification
NVZ	Nitrate Vulnerable Zone
NWES	North Wales Energy Strategy
O ₃	ozone
OA	Output Area
oBSMP	outline Battery Safety Management Plan
OEP	Office for Environmental Protection
OHL	Existing Overhead Lines
OM	Odonata + Megaloptera
OMEMP	Operational and Maintenance Environmental Management Plan
OMH	Open Mosaic Habitat
ONS	Office for National Statistics
OS	Ordnance Survey
OSMM	Ordnance Survey Master Map
OSPAR	Convention for the Protection of the Marine Environment of the North-East Atlantic
OSWMP	Outline Site Waste Management Plan
OTNOC	Other Than Normal Operating Conditions
OWC	Ordinary Watercourse Consent
PAD	protocol for unexpected archaeological discoveries
PAH	polycyclic aromatic hydrocarbon
PAS	Portable Antiquities Scheme
PAS	Publicly Available Specification
PC	Process Contributions
PCB	polychlorinated biphenyls
PCC	Power and Carbon Capture
PCCC	Post Combustion Carbon Capture and Compression
PCL	potential contaminant linkages
PCs	Process Contributions
PEA	Preliminary Ecological Appraisal

Abbreviation / Frequently used term	Definition/Notes
PEC	Predicted Environmental Concentration
PEI	Preliminary Environmental Information
PEIR	Preliminary Environmental Information Report
PFA	Pulverised Fuel Ash
PFCs	Perfluorocarbons
PHE	Public Health England
PHE	Potentially Harmful Elements
PHW	Public Health Wales
PIC	Personal Injury Collision
PIG	Pipeline Inspection Gauge
PINS	The Planning Inspectorate
PLCMF	Pennine Lower Coal Measures Formation
Pm	Period Mean
PM ₁₀	Particulate Matter
PM _{2.5}	Particulate Matter
PMSC	Port Marine Safety Code
POW	prisoner-of-war
PPE	Personal Protective Equipment
PPG	Pollution Prevention Guidance
PPG	Planning Practice Guidance
PPV	Peak Particle Velocity
PPW	Planning Policy Wales
PRA	Preliminary Roost Assessment
PRA	Preliminary Risk Assessment
PRFS	Potential Roosting Features
PRoW	Public Rights of Way
PRS	Pressure Reduction Station
PSI	Sediment-sensitive Invertebrates
pSPA	provisional SPA
PSR	Pipeline Safety Regulations
PSYM	Pond Predictive System of Multimetrics Survey
PT	Proficiency Testing

Abbreviation / Frequently used term	Definition/Notes
PTS	Permanent Threshold Shifts
PWS	Private Water Supplies
QRA	Quantative Risk Assessment
RBBP	Rare Breeding Birds Panel
RBD	River Basin District
RBD	Red Data Book
RBD	river basin district
RBMP	River Basin Management Plan
RCAHMW	Royal Commission on the Ancient and Historical Monuments of Wales
RCP	Representative Concentration Pathway
REF	Regional Economic Framework
RFAW	Research Framework for the Archaeology of Wales
RFI	Request for Information
RICS	Royal Institute of Chartered Surveyors
RICT	River Invertebrate Classification Tool
RIGS	Regionally Important Geological Sites
RMNI	River macrophyte nutrient index
RMSE	Root Mean Square Error
RNAG	Reason(s) for Not Achieved Good Status
ROI	Radius of Influence
Ro-Ro	Roll On Roll Off
ROV	Remotely Operated Vehicle
RPA	Root Protection Area
RPG	Registered Park and Garden
RSPB	Royal Society for the Protection of Birds
s	Sand
SAB	SUDS Approval Body
SAC	Special Area of Conservation
SAFFA	Salmon and Freshwater Fisheries Act
SAM	Scheduled Ancient Monuments
SAT	Specific Assemblage Types

Abbreviation / Frequently used term	Definition/Notes
SB	South Bound
SCANS	Small Cetacean Abundance in the European Atlantic and North Sea
SCBR	Site Condition and Baseline Report
SCL	Sandy Clay Loam
SCOS	Special Committee on Seals
SCR	Selective Catalytic Reduction
SDP	Strategic Development Plan
SEPA	Scottish Environment Protection Agency
SF ₆	Sulphur hexafluoride
SFBs	sunken featured buildings
SFCA	Strategic Flood Consequence Assessments
SHA	Statutory Harbour Authority
SI	Statutory Instrument
Si	Silicon
SL	Sandy Loam
SLMs	Sound Level Meters
SMNR	Sustainable Management of Natural Resources
SMP	Shoreline Management Plan
SMR	Small Modular Reactors
SMRU	Sea Mammal Research Unit
SMS	Safety Management System
SNCI	Sites of Nature Conservation Importance
SO ₂	Sulphur Dioxide
SOPEP	Shipboard Oil Pollution Emergency Plan
SOPI	Species of Principle Importance
SoS	Secretary of State
SOVs	Service Operation Vessels
SPA	Special Protection Area
SPEN	Scottish Power Energy Networks
SPGN	Supplementary Panning Guidance Note
SPI	Species of Principal Importance

Abbreviation / Frequently used term	Definition/Notes
SPM	Suspended Particulate Matter
SPMT	Special Purpose Modularised Transporter Units
SPZ	Source Protection Zone
SQI	Species Quality Indices
SQS	Species Quality Score
SRAM	Safety Report Assessment Manual
SRN	Strategic Road Network
SSC	Suspended Sediment Concentration
SSP	Shared Socioeconomic Pathways
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage Systems
SVOC	semi-volatile organic compounds
sWEEE	small Waste Electrical and Electronic Equipment
SWMMP	Surface Water Management and Maintenance Plan
SWMP	Site Waste Management Plan
T&D	Transmission and Distribution
T&S	Transport and Storage
TA	Transport Assessment
TA	Technical Assessment
TAG	Transport Analysis Guidance
TAME	Tertiary-amyl methyl ether
TAN	Technical Advice Note
TAN 6	Technical Advice Note 6
TANs	Technical Advice Notes
tCO _{2e}	tonnes Carbon Dioxide equivalent
TCV	Taxon Cover Values
TDS	Total Dissolved Solid
TE	Terrestrial and Aquatic Ecology
TE	Traffic Ecological
TEA	triethanolamine
TGN	Technical Guidance Note
Ti	Titanium

Abbreviation / Frequently used term	Definition/Notes
TIS	Transport Implementation Strategy
TLSE	Test of Likely Significant Effects
TPH	total petroleum hydrocarbons
TPO	Tree Preservation Order
TPP	Tree Protection Plan
TRaC	Transitional and Coastal
TRO	Total Residual Oxidant
TRS	Trophic Ranking Score
TTE	TTE Technical UK
TTRO	Temporary Traffic Regulation Order
TW	Terrestrial Waters
UAV	Unmanned Aerial Vehicle
UK	United Kingdom
UKCP18	United Kingdom Climate Projections 2018
UKCS	United Kingdom Continental Shelf
UKHab	UK Habitat
UKHO	United Kingdom Hydrographic Office
UKHO	UK Hydrographic Office
UKHSA	UK Health Security Agency
UKSO	UK Soil Observatory
UNCLOS	United Convention on the Law of the Sea
UNDRR	United Nations Office for Disaster Risk Reduction
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNFCCC	United Nations Framework Convention on Climate Change
UPS	Uninterruptible Power Supply
UPVC	unplasticized polyvinyl chloride
UWS	Underwater Sound
UXO	unexploded ordnance
V	Vanadium
VDV	vibration dose values
VOC	Volatile Organic Compounds

Abbreviation / Frequently used term	Definition/Notes
VU	Vulnerable
W	Tungsten
WAC	Waste Acceptance Criteria
WB	West Bound
WBCSD	World Business Council for Sustainable Development
WBOT	Wirral Barn Owl Trust
WC	Wetness Class
WCA	Wildlife and Countryside Act
WeBS	Wetland Bird Survey
WEMWBS	Warwick-Edinburgh Mental Well-Being Scale
WFD	Water Framework Directive
WGEEL	Working Group on Eels
WHIASU	Wales Health Impact Assessment Support Unit
WHO	World Health Organisation
WHPT	Whally, Hawkes, Paisley & Trigg
WHS	World Heritage Sites
WI	Non-breeding season
WIMD	Welsh Index of Multiple Deprivation
WLCA	Whole Life Carbon Assessment
WMP	Water Management Plan
WNMP	Welsh National Marine Plan
WPA	Waste Panning Authorities
WRAP	Waste and Resources Action Plan
WRI	World Resources Institute
WSI	Written Scheme of Investigation
WTS	Wales Transport Strategy
WTT	well to tank
WTV	water target value
ZL	silt Loam
Zol	Zone of Influence
ZTV	Zone of Theoretical Visibility

