



Morven Hawthorn Pit Grid Connection Project

Preliminary Environmental Information Report

Volume 1, Annex 1.1: Statement of Expertise

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Glossary

Term	Meaning
Amenity	The natural environment, cultural heritage, landscape and visual quality. Also includes the impact of the Applicant's works on communities, such as the effects of noise and disturbance from construction activities.
Benthic Ecology	Benthic ecology encompasses the study of the organisms living in and on the sea floor, the interactions between them and impacts on the surrounding environment.
Biodiversity Net Gain (BNG)	Biodiversity Net Gain (BNG) is a process whereby development leaves biodiversity in a measurably better state and is a planning policy requirement in England under the National Planning Policy Framework (2025). BNG is a statutory requirement under the Environment Act (2021) for certain Town and Country Planning Act (TCPA) developments setting out a mandatory 10 percent (%) net gain in biodiversity. At time of writing, the 10% statutory requirement is not in force for Nationally Significant Infrastructure Projects (NSIPs), although is expected in November 2026. Guidance has been provided by the Department for Environment, Food and Rural Affairs (Defra).
Climate Change	A change in global or regional climate patterns, in particular a change apparent from the mid to late 20th century onwards and attributed largely to the increased levels of atmospheric carbon dioxide produced by the use of fossil fuels.
Effect	Term used to express the consequence of an impact. The significance of an effect is determined by correlating the magnitude of the impact with the importance, or sensitivity, of the receptor or resource in accordance with defined significance criteria.
Geology	The study of the rocks and similar substances that make up the earth's surface.
Groundwater	All water which is below the surface of the ground in the saturated zone and in direct contact with the ground or subsoil.
Habitat	The environment that a plant or animal lives in.
Habitats Regulations	A term used to refer to the collective legislation that translates the Habitats Directive (Directive 92/43/ECC) and the Wild Birds Directive (Directive 2009/147/EC) into specific legal obligations in Scotland and England. Namely: the Conservation of Habitats and Species Regulations 2017 (applies in England onshore and out to 12 nm and in Scotland for reserved activities), and the Conservation of Offshore Marine Habitats and Species Regulations 2017 (applies in English and Scottish waters beyond 12nm). These Regulations provide the legal framework for the protection of European sites, including Special Areas of Conservation (SACs) and Special Protection Areas (SPAs), European offshore marine sites and Ramsar sites and underpin the Habitats Regulations Assessment/Appraisal (HRA) process.
Health	State of complete physical, mental and social wellbeing and not merely the absence of disease or infirmity.
Hydrogeology	A branch of geology concerned with the occurrence, use, and functions of surface water and groundwater.
Hydrology	The study of water on and beneath the earth's surface, with regards to its occurrence, distribution, movement and properties as well as its relationship with the environment within each phase of the water cycle.

Term	Meaning
Impact	A change caused by an action that occurs during a project's lifetime.
Marine Licence	A marine licence permits the undertaking of different activities in the marine environment, including construction, the deposition or removal of substances or objects from the seabed and dredging. The Marine and Coastal Access Act 2009 requires a marine licence to be obtained for licensable marine activities within the Scottish offshore region (12nm – 200nm) and in English offshore and inshore regions (noting that deemed marine licences will be included within the Development Consent Order application).
Marine Conservation Zone (MCZ)	An area designated under the Marine and Coastal Access Act 2009 in English waters for the purpose of conserving marine flora, fauna, habitats, or features of geological or geomorphological interest.
Marine Protected Area (MPA)	Areas within the United Kingdom's seas designated for the protection of marine life and habitats against damage caused by human activities.
Nationally Significant Infrastructure Project (NSIP)	Large scale development which requires development consent under the Planning Act 2008.
Navigational Risk Assessment (NRA)	A document which assesses the hazards to shipping and navigation of a proposed subsea cable based upon a Formal Safety Assessment.
Ornithology	Branch of zoology that concerns the study of birds.
Receptor	A specific environmental feature, resource, population or asset that may be affected by the MHPGC Project, either directly or indirectly, and which falls within the environmental topics considered under the EIA Regulations.
Shellfish	For the purposes of this assessment, shellfish is considered a generic term to define molluscs and crustaceans.
Significance	Effect factor that is determined by the magnitude of impact along with the sensitivity of the receptor.
Surface Water	Inland water bodies present on the surface of the land, including rivers, streams, lakes and transitional waters, and, for regulatory purposes, extending to certain coastal waters.
Underwater Sound	Sound that travels through water, made by natural sources like animals or by human activities like vessels and construction activities.

Acronyms

Acronym	Meaning
AEnvCoW	Association of Environmental Clerks of Works
AISEP	Associate member of Institute of Sustainability and Environmental Professionals
AMICE	Associate Member of the Institution of Civil Engineers
BA	Bachelor of Arts
BNG	Biodiversity Net Gain
BSc	Bachelor of Science
BSSS	British Society of Soil Science

Acronym	Meaning
CEng	Chartered Engineer
CEnv	Chartered Environmentalist
CGeog	Chartered Geographer
CIEEM	Chartered Institute of Ecology and Environmental Management
CIGRE	Conseil International des Grands Réseaux Électriques
CMarEng	Chartered Marine Engineer
CMarSci	Chartered Marine Scientist
CMILT	Chartered Member of the Institute of Logistics and Transport
CSci	Chartered Scientist
DCO	Development Consent Orders
EfW	Energy from Waste
EIA	Environmental Impact Assessment
ES	Environmental Statement
GCN	Great Crested Newt
HRA	Habitats Regulations Assessment
IBG	Institute of British Geographers
IEMA	Institute of Environmental Management and Assessment
IET	Institution of Engineering and Technology
IMarEST	Institute of Marine Engineering, Science and Technology
ISEP	Institute of Sustainability and Environmental Professionals
MCIfA	Member of the Chartered Institute for Archaeologists
MCIHT	Member of the Chartered Institution of Highways & Transportation
MCZ	Marine Conservation Zone
MEnvS	Master of Environmental Studies
MHPGC	Morven Hawthorn Pit Grid Connection
MIET	Member of the Institution of Engineering and Technology
MIEnvSci	Member of the Institute of Environmental Sciences
MIMarEST	Member of Institute of Marine Engineering Science and Technology
MIOA	Member of the Institute of Acoustics
MvOWL	Morven Offshore Wind Limited
MSc	Master of Science
NSIP	Nationally Significant Infrastructure Project
OHL	Overhead Line
PISEP	Practitioner member of Institute of Sustainability and Environmental Professionals
PEIR	Preliminary Environmental Information Report
PhD	Doctor of Philosophy

Acronym	Meaning
PINS	Planning Inspectorate
PVA	Population Viability Analysis
SoBRA	Society of Brownfield Risk Assessment
SoCC	Statements of Common Ground
TCPA	Town and Country Planning Act
WFD	Water Framework Directive

1 Statement of Expertise

1.1 Overview

- 1.1.1.1 This annex presents the Statement of Expertise for the Morven Hawthorn Pit Grid Connection Project (referred to hereafter as 'the MHPGC Project'). It forms **Volume 1, Annex 1.1: Statement of Expertise, of the Preliminary Environmental Information Report (PEIR)** prepared for the MHPGC Project and supports **Volume 1, Chapter 1: Introduction, of the PEIR**.
- 1.1.1.2 The purpose of this document is to supply Statements of Expertise for every author involved in producing the PEIR, as mandated by Regulation 14(4) of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This document demonstrates that suitably qualified and experienced professionals have prepared and reviewed all sections of the PEIR, ensuring regulatory compliance and the technical robustness of the environmental information presented. The Environmental Impact Assessment (EIA) process has been managed by WSP (on behalf of the Applicant) who have been awarded the Institute of Sustainability and Environmental Professionals (ISEP) (formerly Institute of Environmental Management and Assessment (IEMA)) EIA Quality Mark, demonstrating its commitment to excellence in the coordination and delivery of EIAs.

1.2 Topic Authors

- 1.2.1.1 **Table 1.1** below lists the competent PEIR chapter technical leads, their organisation, academic/professional qualifications and relevant project experience. Annexes/technical reports and additional documents have also been included. It should be noted that other authors at each of the organisations will have contributed to the production of each document.

Table 1.1: Statement of expertise of competent specialists involved in the PEIR

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Volume 1: Introduction			
Chapter 1: Introduction	WSP UK	Practitioner member of ISEP (PISEP). MSc, Sustainability & Consultancy; BSc Hons, Marine Biology. Over 4 years' experience in environmental consultancy, supporting major energy projects. Experience in EIA coordination across Development Consent Orders (DCOs), transmission, hydrogen, nuclear decommissioning, and marine licensing. Strong in multidisciplinary coordination, stakeholder engagement, and delivery of technical and commercial requirements.	• Hinkley Point B and Hunterston B Nuclear Power Stations; • HyNet Northwest Hydrogen Pipeline; • Yorkshire GREEN.
Annex 1.1: Statement of Expertise			
Chapter 2: Project Description	Morven Offshore Wind Limited (MvOWL)	Chartered Environmentalist (CEnv); ISEP. MSc, Environmental Management; BSc (Hons), Geography. Over 18 years in providing consenting advice for large scale infrastructure projects including nuclear energy, offshore wind, buried electrical cables, gas pipelines, substations, mining, river restoration, flood alleviation and water level management projects. Extensive experience in EIA, consenting strategies, and consenting advice across DCO, Town and Country Planning Act (TCPA) and other associated permissions and licenses.	• Morgan Offshore Wind Farm Transmission Assets; • Mona Offshore Wind Farm; • East Anglia THREE Offshore Wind Farm; • Bradwell B Nuclear Power Station; • East Anglia ONE NORTH and East Anglia TWO Offshore Wind Farms; • Triton Knoll Offshore Wind Farm; • Walney Extension Offshore Wind Farm; • Turkstream Natural Gas Pipeline; • York Potash Project (Woodsmith Mine).
Annex 2.1: Onshore EMF Compliance Statement			
Chapter 3: Site Selection and Consideration of Alternatives	MvOWL	CEnv; ISEP. MSc, Environmental Management; BSc (Hons), Geography. Over 18 years in providing consenting advice for large scale infrastructure projects including nuclear energy, offshore wind, buried electrical cables, gas pipelines, substations, mining, river	• Morgan Offshore Wind Farm Transmission Assets; • Mona Offshore Wind Farm; • East Anglia THREE Offshore Wind Farm;
Annex 3.1: Selection and Refinement of the Cable Landfall			

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Annex 3.2: Selection and Refinement of the Offshore Infrastructure		restoration, flood alleviation and water level management projects. Extensive experience in EIA, consenting strategies, and consenting advice across DCO, TCPA and other associated permissions and licenses.	• Bradwell B Nuclear Power Station; • East Anglia ONE NORTH and East Anglia TWO Offshore Wind Farms; • Triton Knoll Offshore Wind Farm; • Walney Extension Offshore Wind Farm; • Turkstream Natural Gas Pipeline; • York Potash Project (Woodsmith Mine).
Annex 3.3: Selection and Refinement of the Onshore Infrastructure			
Chapter 4: Approach to Environmental Impact Assessment	WSP UK	PISEP. MSc, Environmental Monitoring, Modelling and Reconstruction; BSc (Joint Honours), Geography and Geology. Over 20 years' experience in environmental consultancy and consenting across a broad range of infrastructure sectors, including offshore wind, transmission and distribution, nuclear, water, carbon capture and hydrogen pipelines, and solar developments. Extensive experience in EIA, consenting strategies, and environmental management across DCO, TCPA.	• Rampion 2 Offshore Wind Farm; • Spiorad na Mara Offshore Wind Farm; • National Grid Kiln Lane Substation; • HyNet North West Hydrogen Pipeline; • Wylfa Newydd Nuclear Power Station; • Thames Tideway Tunnel; • London 2012.
Annex 4.1: Draft Commitments Register			
Annex 4.2: Transboundary Screening	GoBe	MSc, Marine Science; Bachelor of Arts (BA) (Hons), Geography. Over 11 years' experience in offshore wind farm consenting and planning and policy in the marine environment. Experienced in production of offshore environment chapters for the Environmental Statement (ES) and the Habitats Regulations Assessment (HRA), leading Expert Working groups with key consultees, producing Statements of Common Ground (SoCGs) and representing the developer at hearings during the DCO Examination.	• Hornsea Three and Hornsea Four • TwinHub Demonstration Site • Sardinia North-West Offshore Wind Farm; • Sicily South Offshore Wind Farm;
Annex 4.3: Cumulative Screening and Location Plan	GoBe (Offshore)	MSc, Marine Science; BA (Hons), Geography. Over 11 years' experience in offshore windfarm consenting and planning and policy in the marine environment. Experienced in production of offshore environment chapters for the ES and the HRA, leading Expert Working groups with key consultees,	• Hornsea Three and Hornsea Four • TwinHub Demonstration Site Sardinia North-West Offshore Wind Farm; • Sicily South Offshore Wind Farm;

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
		producing SoCGs and representing the developer at hearings during the DCO Examination. MSc, Offshore Renewable Energy; BSc, Geography with Ocean Science. Over 3 years' experience in Marine Planning across offshore projects, specialising in marine consenting, stakeholder management, and EIA delivery. Experience as Consents and Stakeholder Manager and Assistant Project Manager for Italian and South African portfolios, leading Italian projects through the full EIA process and acting as Environmental Manager for geophysical and environmental surveys.	Project Managing production of Project Feasibility Study for options for a fibre optic cable and associated landfall.
	WSP UK (Onshore)	Associate member of ISEP (AISEP). MSc, Global Sustainability Solutions; BA (Hons), Geography. Over 3 years' experience in environmental consultancy, supporting major energy and infrastructure projects across onshore and offshore sectors. Experienced in EIA coordination across onshore and offshore projects, including authoring and reviewing EIA chapters, drafting climate change assessments, and contributing to HRA compensation measures.	- Five Estuaries Offshore Wind Farm; - Moor Vannin Offshore Wind Farm; - Moor Vannin Offshore Wind Farm UK Transmission Assets.
Chapter 5: Policy and Legislation	WSP UK	PISEP. MSc, Sustainability & Consultancy; BSc Hons, Marine Biology. Over 4 years' experience in environmental consultancy, supporting major energy projects. Experienced in EIA coordination across DCOs, transmission, hydrogen, nuclear decommissioning, and marine licensing. Strong in multidisciplinary coordination, stakeholder engagement, and delivery of technical and commercial requirements.	- Hinkley Point B and Hunterston B Nuclear Power Stations; - HyNet Northwest Hydrogen Pipeline; - Yorkshire GREEN.
Volume 2: Offshore			
Chapter 1: Physical Processes	ABPmer		

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Annex 1.1: Physical Processes Technical Report	ABPmer	PhD; BSc (Combined Hons), Oceanography with Physical Geography.	• Ayre & Bowdun Offshore Wind Farm; • INTOG Floating Offshore Wind Farm; • Llŷr Floating Offshore Wind Farm; • Marram Offshore Wind Farm; • Salamander Floating Offshore Wind Farm.
Annex 1.2: Model Design, Validation and Results	ABPmer	25 years' experience in oceanography and sediment processes, with expertise in coastal and shelf sea processes, micro- to meso-scale sediment dynamics, and numerical modelling. Extensive experience in offshore wind projects, including physical processes EIA and metocean studies for over 20 offshore wind farms, post-submission support, and the design of bespoke surveys for pre- and post-consent monitoring.	
Chapter 2: Offshore Water and Sediment Quality	GoBe	MSc, Environmental Management and Earth Observation; BSc, Marine Biology.	• London Gateway Port Development; • DEFRA 25 year environmental plan B6 indicator; • Morlais Tidal Demonstration Zone.
Annex 2.1: Water Framework Directive Assessment		Over 20 years' experience in environmental consultancy across marine and freshwater ecology, EIA and policy. Experience in working on multidisciplinary projects covering major port development, dredging projects, nuclear and tidal stream power.	
Chapter 3: Benthic Subtidal and Intertidal Ecology	GoBe	Member of Marine Biological Association. MSc, Environmental Consultancy; BSc, Marine Biology (Hons).	• Stromar Offshore Wind Farm; • Muir Mhor Offshore Wind Farm; • Five Estuaries Wind Farm; • Outer Dowsing Wind Farm; • Caledonia Wind Farm.
Annex 3.1: Benthic Ecology Technical Report		With over 15 years' experience, provides expert scientific consultancy on the environmental impacts of large-scale marine infrastructure projects, specialising in benthic ecology and offshore wind. Has supported the consent and development of 20+ offshore wind farms, delivering mitigation, biodiversity net gain (BNG), and survey strategies aligned with regulatory requirements.	
Chapter 4: Fish and Shellfish Ecology	GoBe	Member of Marine Biological Association. MSc, Environmental Consultancy; BSc, Natural History.	• Stromar Offshore Wind Farm; • Muir Mhor Offshore Wind Farm; • Five Estuaries Wind Farm; • Outer Dowsing Wind Farm; • Caledonia Wind Farm.
Annex 4.1: Herring and Sandeel Assessment		With over 5 years' experience in the offshore wind sector, brings a strong background in marine biology and a focused interest in the environmental impacts of large-scale offshore developments. Has acted as fish and shellfish technical lead on multiple offshore wind projects across English, Scottish, and Irish waters, including authoring EIA reports and supporting DCO examinations as an expert witness.	

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Annex 4.2: Morven HVDC EMF Study	Offshore Wind Consultants Limited (OWC)	Chartered Engineer (CEng) through the Institution of Engineering and Technology (IET); Member of the IET (MIET); Member of Conseil International des Grands Réseaux Électriques (CIGRE). MSc, Sustainable Energy Systems; BS, Electrical Engineering (Magna Cum Laude). Over 18 experience as an electrical engineer, specialising in the offshore transmission design and grid connection of offshore wind farms. Areas of expertise cover design of electrical systems, design of offshore array and export cable systems, submarine and onshore cables, cable thermal studies, costs-benefit analysis and design optimisation, reliability analysis, due diligence, project strategy, planning requirements for electrical infrastructure, and technical studies including power systems simulations.	• Bowdun Offshore Wind Farm, Scotland • SouthCoast Offshore Wind Farm, Northeast US • Morecambe Offshore Wind Farm, England • Atlantic Shores Offshore Wind Farm, Northeast US • Seagreen Phase 1 Offshore Wind Farm, Scotland • Baltic Hub Offshore Wind Farms, Germany
Chapter 5: Marine Mammals	GoBe	MSci, Marine Biology. Over 9 years' experience in marine environmental consultancy and mitigation, with a strong focus on marine mammals across offshore wind, oil and gas, and research projects. Extensive expertise in EIA, HRA, underwater noise, and wildlife licensing for Nationally Significant Infrastructure Projects (NSIPs), with experience in technical leadership, marine mammal mitigation, and delivery of complex marine assessments.	• Rampion 2 Offshore Wind Farm; • Morecambe Offshore Wind Farm; • Dudgeon and Sheringham Extension Projects Offshore Wind Farm; • Hornsea 4 Offshore Wind Farm; • Dogger Bank A and B Offshore Wind Farm.
Annex 5.1: Underwater Sound Technical Report			
Chapter 6: Marine Ornithology	APEM	PhD, Sustainable Infrastructure Systems; MSc, Marine Mammal Science; BSc (Hons), Biology. Principal Consultant and lead ornithologist with over 5 years' experience, specialising in marine ornithology, marine mammal science and freshwater ecology. Managed numerous large-scale project EIA and HRA workstreams through all stages of the consenting process. Expertise in technical assessments (e.g. statistical analysis, population viability analysis (PVA) modelling, collision risk modelling) and providing strategic advice to developers on all ornithological matters.	• Outer Dowsing Offshore Windfarm; • NISA Offshore Wind Farm; • Five Estuaries Wind Farm; • Rampion 2 Offshore Wind Farm; • Stromar Offshore Windfarm.
Chapter 7: Commercial Fisheries	NiMa		

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Annex 7.1: Commercial Fisheries Technical Report		Affiliate with the Association of Environmental Clerks of Works (AEnvCoW); Chartered Marine Scientist (CMarSci) with the Institute of Marine Engineering, Science and Technology (IMarEST). MSc, Tropical Coastal Management; Pg Cert. Environmental Management; BA, Geography. Over 17 years' experience in marine environmental consultancy. Project manager and lead EIA consultant for marine and coastal developments across a variety of projects.	• Morecambe Offshore Wind Farm; • Outer Dowsing Offshore Wind Farm; • Awel y Mor Offshore Wind Farm.
Chapter 8: Shipping and Navigation	Anatec	BSc (Hons), Mathematics. 9 years' experience within the marine navigational risk sector. Experience primarily in the renewable energy industry, and specifically offshore wind farms, based most prominently in Scottish and English waters. Completion of Navigational Risk Assessments including detailed vessel traffic analysis, quantitative modelling of future scenarios, and stakeholder consultations such as Hazard Workshops for projects of various scales as part of the EIA.	• Undertaken EIA for a number of large-scale renewable energy projects (including in Scotland, England, Isle of Man, Ireland and United States) including Navigational Risk Assessments, shipping and navigation chapters and scoping reports.
Annex 8.1: Navigation Risk Assessment			
Annex 8.2: Cable Burial Risk Assessment	Global Maritime	CEng; Chartered Marine Engineer (CMarEng) as Member of Institute of Marine Engineering Science and Technology (MIMarEST); Associate Member of the Institution of Civil engineers (AMICE); Member of ESCA Power Cables Sub-Group and chair of Work Stream 2 – Power Cables Installation and Protection. MEng (Hons), General Engineering (Civil Engineering). Senior civil and geotechnical engineer with over 15 years' experience in offshore energy, specialising in subsea cable engineering, geoscience and cable integrity risk management. Since 2018, has led complex cable scopes for offshore wind and HVDC interconnector projects, from desktop studies, routing and landfall assessment through CBRA, burial assessment, cable protection and operational integrity review. Acts as technical lead and subject-matter specialist, defining methodologies, coordinating multidisciplinary inputs, assuring deliverables and	• Awel y Mor Offshore Wind Farm, Wales • Sofia Offshore Wind Farm, England • Arklow Phase 2 Offshore Wind Farm, Ireland • Dogger Bank South Offshore Wind Farm, England • Dogger Bank C Offshore Wind Farm, England • Dogger Bank D Offshore Wind Farm, England • Berwick Bank (Phases A, B & C) Offshore Wind Farm, Scotland • Pentland Firth Interconnector, Scotland • Moray East Offshore Wind Farm, Scotland • NNG Offshore Wind Farm, Scotland • Seagreen Offshore Wind Farm, Scotland

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
		advising clients on key design, installation and operational risks. Brings particular expertise in interpreting bathymetric, side-scan sonar, geophysical and geotechnical data to assess seabed mobility, cable burial performance, exposure risk and UXO migration.	• Ossian Offshore Wind Farm, Scotland • Green Volt Offshore Wind Farm, Scotland • Cenos Offshore Wind Farm, Scotland • East Anglia 2 Offshore Wind Farm, England
Annex 8.3: Marine Compass Deviation Assessment	OWC	CEng through the IET; MIET; Member of CIGRE. MSc, Sustainable Energy Systems; BS, Electrical Engineering (Magna Cum Laude);. Over 18 years' experience as an electrical engineer, specialising in the offshore transmission design and grid connection of offshore wind farms. Areas of expertise cover design of electrical systems, design of offshore array and export cable systems, submarine and onshore cables, cable thermal studies, costs-benefit analysis and design optimisation, reliability analysis, due diligence, project strategy, planning requirements for electrical infrastructure, and technical studies including power systems simulations.	• Bowdun Offshore Wind Farm, Scotland • SouthCoast Offshore Wind Farm, Northeast US • Morecambe Offshore Wind Farm, England • Atlantic Shores Offshore Wind Farm, Northeast US • Seagreen Phase 1 Offshore Wind Farm, Scotland • Baltic Hub Offshore Wind Farms, Germany
Chapter 9: Marine and Intertidal Archaeology	MSDS	Member of the Chartered Institute for Archaeologists (MCIfA). BSc (hons), Marine Archaeology.	• Ossian Offshore Wind Farm; • Hornsea Project Two, Three and Four Offshore Wind Farm; • Morven Offshore Wind Farm; • Berwick Bank and Marr Bank Offshore Wind Farms; • Morgan and Mona Offshore Wind Farm; • Cenos Offshore Wind Farm.
Annex 9.1: Marine Archaeology Technical Report	MSDS	Over 20 years of experience within the maritime archaeology sector both in the UK and abroad. Notable areas of expertise include geophysical and hydrographic data collection, processing and interpretation for archaeology, archaeological diving and dive management and the management of large-scale archaeological projects.	
Chapter 10: Infrastructure and Other Sea Users	GoBe	MSc, Offshore Renewable Energy; BSc, Geography with Ocean Science. Over 3 years' experience in Marine Planning across offshore projects, specialising in marine consenting, stakeholder management, and EIA delivery. Experience as Consents and Stakeholder Manager and Assistant Project Manager for Italian and South African portfolios, leading Italian projects through the full EIA process and acting as	• Sardinia North-West Offshore Wind Farm; • Sicily South Offshore Wind Farm; • TwinHub Demonstration Site.

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
		Environmental Manager for geophysical and environmental surveys.	
Volume 3: Onshore			
Chapter 1: Geology, Hydrogeology and Ground Conditions	WSP UK	CEnv; PISEP; Member of the Institution of Environmental Sciences (MIEnvSci); Associate Member of British Society of Soil Science (BSSS); Member of Society of Brownfield Risk Assessment (SoBRA). Master of Environmental Studies (MEnvS). Over 21 years' experience as an environmental consultant specialising in land quality, with expertise in planning, EIA, due diligence, and environmental permitting across multiple sectors. Technical lead for soils and agricultural land, with experience across wind, solar, energy from waste (EfW), residential, and pipeline projects, and contributor to ISEP guidance on land and soil in EIA.	• MarramWind Offshore Wind Farm; • Rampion 2 Offshore Wind Farm; • Hunterston B power station decommissioning; • HyNet North West Hydrogen Project; • Pennant Walters, Mynydd Carn y Cefn, Mynydd y Glyn, Mynydd Llanhilleth, and Trecelyn Wind Farms.
Annex 1.1: Phase 1 Geo-Environmental Preliminary Risk Assessment			
Chapter 2: Water Resources and Flood Risk	WSP UK	Member of Chartered Institution of Water and Environmental Management. PG Cert Civil Engineering; MSc, Polar and Alpine Change; BSc (Hons), Geography. Over 8 years' experience in flood risk and water environmental consultancy, with expertise in hydrology, drainage, and planning policy across residential, commercial, industrial, and energy developments. Experienced in leading the preparation and review of Flood Risk Assessments, Flood Management Plans, and Hydrology and Flood Risk ES chapters, alongside conceptual and detailed drainage strategies, and in liaising with stakeholders.	• Morgan and Morecambe Onshore Transmission Assets; • Morocco – UK Power Project (Onshore); • Mona Onshore Cable Corridor; • Botley West Solar Farm.
Annex 2.1: Water Abstraction Licences, Discharge Consents and Pollution Incidents			
Annex 2.2: Flood Risk Assessment			
Annex 2.3: Onshore Water Framework Directive Assessment	WSP UK	Chartered Geographer (CGeog) in the Royal Geographical Society (with Institute of British Geographers (IBG)). PhD, Geomorphology; MSc, Geography; BSc, Geography. Over 10 years of experience as a consultant with a record of accomplishment in multiple projects in BNG, Water Framework Directive assessment, river and catchment restoration, flood risk analysis in conjunction with fluvial audits, sediment transport	• Uisce Éireann; • HyNet Spurlines – Runcorn Spur Pipeline, UK; • Norwich Western Link Geomorphology & WFD Contributor.

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
		modelling, natural flood management optioneering, and topographic survey.	
Chapter 3: Terrestrial Ecology and Terrestrial and Intertidal Ornithology	WSP UK	Member of the Chartered Institute of Ecology and Environmental Management (CIEEM). MSc, Wildlife Conservation and Management; BSc (Hons), Environmental Management. Over 18 years' experience in terrestrial ecology, with expertise in ecological surveys, Ecological Impact Assessment, and mitigation strategy development. Experienced in managing and providing technical leadership for projects ranging from small-scale developments to NSIPs across the renewable energy, nuclear, power, transport, water, minerals, and property sectors. Associate Member of the CIEEM. BSc (Hons), Biological Sciences. Over 11 years' experience in ecological consultancy across infrastructure, energy, residential, industrial, and habitat creation projects, with strong expertise in HRA (Stages 1 and 2). Experienced in leading ecological assessments, surveys, and mitigation design for multiple receptors, including bats, great crested newt (GCN), reptiles, badgers, dormice, and habitats, alongside managing ecology inputs to large-scale developments.	- HyNet North West Hydrogen Distribution Pipeline DCO; - Medworth Energy From Waste Combined Heat and Power Facility DCO; - Diversion of Electricity Overhead Lines and Gas Pipelines for HS2. - Cambridge South-East Transport Scheme; - Andover Link Main; - Carlisle Southern Link Road.
Annex 3.1: Terrestrial Ecology and Terrestrial and Intertidal Ornithology Survey Methodologies Technical Report			
Annex 3.2: UK Habitat Classification, National Vegetation Classification, River Condition Assessment and Hedgerow Surveys Technical Report			
Annex 3.3: Interim Badger Surveys Technical Report			
Annex 3.4: CONFIDENTIAL Interim Badger Surveys Technical Report			
Annex 3.5: Interim Bat Surveys Technical Report			
Annex 3.6: Initial Biodiversity Net Gain Assessment	WSP UK	CEnv; Member of the CIEEM. PhD; BSc (Hons) Science and the Environment. Over 23 years' experience in ecological consultancy, specialising in ecological impact assessment, biodiversity assessment, habitat creation, and BNG. Experienced in leading ecological teams on complex infrastructure and development projects, with particular expertise in habitat restoration, natural capital approaches, and landscape-scale nature recovery.	- Nuclear Restoration Services – Winfrith Restoration Management Plan; - Dorset County Council – Habitat Bank & Nature Finance Strategy; - North Yorkshire Council – Local Investment in Natural Capital Programme Strategy; - Somerset Council – Nature Markets Strategy.

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
		Member of the CIEEM. MSc, Ecology, Evolution, and Conservation; BSc (Hons), Zoology. Five years' experience, with particular expertise in BNG, UKHab classification, and ecology-led project delivery for large-scale infrastructure and development schemes. Experienced in delivering and managing BNG assessments from baseline through to strategy development and technical reporting, including stakeholder engagement, workshops, and development of site-specific BNG approaches. Holds a Natural England GCN licence and has broad protected species and habitat survey experience.	• Catterick Project Falcon; • Nettleham NMU Bridge; • Gresham Masterplan; • HyNet.
Annex 3.7: Interim Reptile Surveys Technical Report	WSP UK	Member of the Chartered Institute of Ecology and Environmental Management (CIEEM). MSc, Wildlife Conservation and Management; BSc (Hons), Environmental Management. Over 18 years' experience in terrestrial ecology, with expertise in ecological surveys, Ecological Impact Assessment, and mitigation strategy development. Experienced in managing and providing technical leadership for projects ranging from small-scale developments to NSIPs across the renewable energy, nuclear, power, transport, water, minerals, and property sectors.	• HyNet North West Hydrogen Distribution Pipeline DCO; • Medworth Energy From Waste Combined Heat and Power Facility DCO; • Diversion of Electricity Overhead Lines and Gas Pipelines for HS2.
Annex 3.8: Interim Great-Crested Newt Surveys Technical Report			
Annex 3.9: Interim Otter Surveys Technical Report			
Annex 3.10: CONFIDENTIAL Interim Otter Surveys Technical Report			
Annex 3.11: Interim Water Vole Survey Technical Report		Associate Member of the CIEEM. BSc (Hons), Biological Sciences. Over 11 years' experience in ecological consultancy across infrastructure, energy, residential, industrial, and habitat creation projects, with strong expertise in HRA (Stages 1 and 2). Experienced in leading ecological assessments, surveys, and mitigation design for multiple receptors, including bats, great crested newt (GCN), reptiles, badgers, dormice, and habitats, alongside managing ecology inputs to large-scale developments.	• Cambridge South-East Transport Scheme; • Andover Link Main; • Carlisle Southern Link Road. •
Annex 3.12: Interim Breeding Birds Surveys Technical Report	WSP UK	Associate Member of the CIEEM. BSc (Hons), Biological Sciences.	• Bowbeat Wind Farm;

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Annex 3.13: Interim Wintering and Passage and Intertidal Birds Surveys Technical Report		Eight years' experience in ecology and ornithology, with expertise in ornithological surveys, ecological assessment, and project delivery for NSIPs, linear utilities, and onshore wind developments. Holder of CL29 barn owl and CL08 Class 1 GCN survey licenses. Experienced in designing and delivering bird surveys, HRA, and supporting projects through all stages of the planning process.	• Monashee Wind Farm; • Homes England project; • Harker Overhead Line (OHL) refurbishment; • ZS/ZSA OHL and VF OHL.
Chapter 4: Onshore Archaeology and Cultural Heritage	WSP UK	MCIfA. Post Graduate Diploma, Environmental Management; BA (Hons), Archaeology and Prehistory. Over 35 years' experience in the UK historic environment sector, specialising in EIA, heritage assessment, and archaeological management across residential, minerals, water, transport, and commercial projects. Experienced in leading historic environment inputs, including desk-based assessments, field investigations, stakeholder liaison, mitigation design, and expert evidence at public inquiries.	• Rampion 2 Offshore Windfarm; • HyNet North West Hydrogen Pipeline Project; • Hinkley Point C Grid Connection; • North Wales Connection.
Annex 4.1: Geoarchaeological Desk-Based Assessment Report			
Annex 4.2: Onshore Archaeology and Cultural Heritage Gazetteer			
Chapter 5: Traffic and Transport	WSP UK	Member of the Chartered Institution of Highways & Transportation (MCIHT); Chartered Member of the Institute of Logistics and Transport (CMILT). MSc, Transportation Planning and Engineering; BSc (Hons), Human Geography. Over 22 years' experience in transport planning, providing highways and transportation advice in support of planning applications and DCOs. Experienced in preparing Transport Assessments, developing transport strategies, and delivering public sector schemes including junction and corridor assessments, traffic management studies, and development of walking and cycling strategies.	• West Burton STEP Nuclear Fusion project; • Rampion 2 Offshore Windfarm; • Aquind Interconnector; • Royal Sussex County Hospital Redevelopment (Brighton).
Annex 5.1: Description of Network Links and Sensitivity			
Chapter 6: Onshore Noise and Vibration	WSP UK		• East West Rail;

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Annex 6.1: Onshore Noise and Vibration Baseline Technical Report		Chartered Scientist (CSci); Member of the Institute of Acoustics (MIOA); MEnvSci. Post Graduate Diploma, Acoustics and Noise Control; BA Hons, Environmental Management. Over 23 years' experience in acoustics across infrastructure, residential, commercial, industrial, and renewable energy sectors. Experienced in delivering noise and vibration assessments (including HS2), stakeholder engagement, multidisciplinary coordination, and team leadership, ensuring projects are delivered on programme and within budget.	• MarramWind Offshore Wind Farm; • Hynet North West Hydrogen Pipeline; • Sizewell C Nuclear Power Station; • Monashee Wind Farm.
Annex 6.2: Onshore Noise and Vibration Construction Technical Report			
Chapter 7: Onshore Air Quality	WSP UK	CEnv, Society of the Environment; Member of Institute of Air Quality Management; MEnvSci. PhD, Air Quality Management and Environmental Justice. MSc, Environmental Diagnostics. BSc (Hons), Biological Sciences. Over 17 years' experience specialising in air quality assessment and environmental permitting, supporting major infrastructure projects globally. Strong expertise in air dispersion modelling, air quality monitoring, and permitting (including EfW and chemical sectors), supported by experience with the UK Environment Agency as a Permitting Officer.	• MarramWind Offshore Wind Farm; • Great Grid Partnership- Norwich to Tilbury; • Rampion 2 Offshore Wind Farm; • Great Grid Partnership Pentir to Trawsfydd Reinforcement Project.
Annex 7.1: Dust Risk Assessment Methodology			
Chapter 8: Land Use, Tourism and Recreation	WSP UK	Licentiate Member of the Royal Town Planning Institute. MSc, Town and Country Planning; BSc, Urban Planning Design and Management. Over 16 years' experience specialising in socio-economics, population and human health, and economic impact assessment across the UK for public and private sector clients. Experienced in EIA and DCO support, leading socio-economic and health assessments, developing business cases, and providing examination evidence.	• Lighthouse Green Fuels; • Eastern Green Link (EGL) 3 & 4; • Dublin Airport Infrastructure; • London Luton Airport Expansion; • Drax Power Station Bioenergy with Carbon Capture and Storage; • HyNet CO2 Pipeline.
Annex 8.1: Land Use, Tourism and Recreation Receptors			

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
Chapter 9: Agriculture and Soils		CEnv; PISEP; Member of the Institution of Environmental Sciences (MIEnvSci); Associate Member of British Society of Soil Science (BSSS); Member of Society of Brownfield Risk Assessment (SoBRA). Master of Environmental Studies (MEnvS). Over 21 years' experience as an environmental consultant specialising in land quality, with expertise in planning, EIA, due diligence, and environmental permitting across multiple sectors. Technical lead for soils and agricultural land, with experience across wind, solar, energy from waste (EfW), residential, and pipeline projects, and contributor to ISEP guidance on land and soil in EIA.	• MarramWind Offshore Wind Farm; • Rampion 2 Offshore Wind Farm; • Hunterston B power station decommissioning; • HyNet North West Hydrogen Project; • Pennant Walters, Mynydd Carn y Cefn, Mynydd y Glyn, Mynydd Llanhilleth, and Trecelyn Wind Farms.
Volume 4: Combined			
Chapter 1: Landscape and Visual Amenity	Ramboll	Chartered Member of the Landscape Institute. BA (Hons), Landscape Architecture. 15 years' experience working on large scale infrastructure and development projects. Skilled in the design and implementation of landscaping works, competent in visual impact, cumulative and seascape assessments and night assessments for lighting impacts.	• Wrexham Energy Centre; • A417 Missing Link; • A358 Taunton to Ilminster; • East West Rail Bicester to Bedford.
Annex 1.1: Landscape Character Baseline Technical Report			
Annex 1.2: Visual Baseline Technical Report			
Annex 1.3: Landscape and Visual Resources Impact Assessment Methodology			
Annex 1.4: Photomontages			
Chapter 2: Human Health	WSP UK	Licentiate Member of the Royal Town Planning Institute. MSc, Town and Country Planning; BSc, Urban Planning Design and Management. Over 16 years' experience specialising in socio-economics, population and human health, and economic impact assessment across the UK for public and private sector clients. Experienced in EIA and DCO support, leading socio-economic and health assessments, developing business cases, and providing examination evidence.	• Lighthouse Green Fuels; • EGL 3 & 4; • Dublin Airport Infrastructure; • London Luton Airport Expansion; • Drax Power Station Bioenergy with Carbon Capture and Storage; • HyNet CO2 Pipeline.

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Chapter 3: Socio-Economics	BIGGAR	Member of Economic Development Association Scotland; Member of Institute for Economic Development. BA (Hons), Economics. Over 30 years' professional experience. Led the socio-economic assessment of more than 200 renewable energy developments over the last two decades, including several proposed offshore wind farms, and has given expert witness evidence at more than 20 public inquiries and hearings.	• Beatrice Offshore Wind Farm; • Seagreen Offshore Wind Farm; • Morecambe, Ossian and MachairWind Offshore Wind Farms.
Annex 3.1: Economic Impact Technical Report			
Chapter 4: Climate Change	WSP UK	Affiliate member of the Energy Institute; Affiliate member of the Chartered Institution of Building Services Engineers; Member of UK Association of Energy Engineers. PhD, Chemistry; MSc, Renewable Energy Systems Technology; BSc (Hons), Chemistry. Over 20 years' experience as an Energy Engineer specialising in energy transition and low/zero carbon energy generation. Experienced in greenhouse gas reporting at corporate and project levels, with expertise in climate legislation, environmental compliance, and delivery of renewable energy feasibility and optioneering studies.	• Spiorad na Mara Offshore Wind Farm; • EGL 3/4; • MarramWind Offshore Wind Farm; • EGL5; • Hynet North West Hydrogen Pipeline; • Future Energy Llanwern Solar Project.
Annex 4.1: Greenhouse Gas Assessment			
Annex 4.2: Climate Change Risk Assessment			
Chapter 5: Inter-related Effects	WSP UK	PISEP. MSc, Sustainability & Consultancy; BSc Hons, Marine Biology. Over 4 years' experience in environmental consultancy, supporting major energy projects. Experienced in EIA coordination across DCOs, transmission, hydrogen, nuclear decommissioning, and marine licensing. Strong in multidisciplinary coordination, stakeholder engagement, and delivery of technical and commercial requirements.	• Hinkley Point B and Hunterston B Nuclear Power Stations; • HyNet Northwest Hydrogen Pipeline; • Yorkshire GREEN.
Additional Documents			
Preliminary Environmental Information Report Non-Technical Summary	WSP UK	PISEP. MSc, Sustainability & Consultancy; BSc Hons, Marine Biology. Over 4 years' experience in environmental consultancy, supporting major energy projects. Experienced in EIA coordination across DCOs, transmission, hydrogen, nuclear decommissioning, and marine licensing. Strong	• Hinkley Point B and Hunterston B Nuclear Power Stations; • HyNet Northwest Hydrogen Pipeline; • Yorkshire GREEN.

Chapter/Annex/Document	Organisation	Qualifications/competencies of author(s)	Relevant project experience
		in multidisciplinary coordination, stakeholder engagement, and delivery of technical and commercial requirements.	
Habitats Regulation Assessment/Habitats Regulations Appraisal Screening Report	Ramboll / APEM	PhD on food web dynamics of <i>N. norvegicus</i> in the Irish Sea. Over 20 years' experience in marine ecology in academic, research and consultancy roles. Current Ramboll Marine Ecology Lead. Expertise in benthic ecology, survey design and the assessment of underwater sound impacts on sensitive receptors. PhD Sustainable Infrastructure Systems. MSc Marine Mammal Science. BSc (Hons) Biology. Principal Consultant and lead ornithologist with over 5 years' experience, specialising in marine ornithology, marine mammal science and freshwater ecology. Managed numerous large-scale project EIA and HRA workstreams through all stages of the consenting process. Expertise in technical assessments (e.g. statistical analysis, PVA modelling, collision risk modelling) and providing strategic advice to developers on all ornithological matters.	• Flora INTOG Floating Offshore Wind Project, BP, United Kingdom; • Llŷr Floating Offshore Wind, EIA, Celtic Sea, UK, Floventis Energy Ltd; • BP Offshore Wind Constraints Analysis, Japan. • Outer Dowsing Offshore Windfarm; • North Ireland Sea Array (NISA); • Five Estuaries; • Rampion 2; • Stromar Offshore Windfarm.
Habitats Regulation Appraisal/Habitats Regulation Assessment RIAA	GoBe (Offshore)	LLB Law. Masters by Research, Modelling and Integrated Management of Water in the Natural Environment. BSc, Marine Science. Over 15 years' experience in environmental assessment across onshore and offshore wind and marine licensing. Strong expertise in EIA coordination, marine consenting, and HRA, with a focus on offshore wind and compensation strategies.	• Tarchon Interconnector Project; • NISA Offshore Wind Farm; • Scroby Sands Offshore Wind Farm – Decommissioning; • Race Bank Offshore Wind Farm; • Aspen Offshore Wind Farm.
	WSP UK (Onshore)	Associate Member of the CIEEM. BSc (Hons), Biological Sciences. Over 11 years' experience in ecological consultancy across infrastructure, energy, residential, industrial, and habitat creation projects, with strong expertise in HRA (Stages 1 and 2). Experienced in leading ecological assessments, surveys, and mitigation design for multiple receptors, including bats, GCN, reptiles, badgers, dormice, and habitats, alongside managing ecology inputs to large-scale developments.	• Cambridge South-East Transport Scheme; • Andover Link Main; • Carlisle Southern Link Road.

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Approach to Marine Protected Area/Marine Conservation Zone and Highly Protected Marine Area Assessments	GoBe	MSc, Environmental Management and Earth Observation; BSc, Marine Biology. Over 20 years' experience in environmental consultancy across marine and freshwater ecology, EIA and policy. Experience in working on multidisciplinary projects covering major port development, dredging projects, nuclear and tidal stream power.	• London Gateway Port Development; • DEFRA 25 year environmental plan B6 indicator; • Morlais Tidal Demonstration Zone.