



# Erebus Floating Wind

## Technical Appendix 1.1

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Client:	OWC
Project/Proposal No:	2923
Version:	1
Date:	2021-11-05



# Document Information

Project Name:	Erebus Floating Wind
Document Title:	Technical Appendix 1.1
Client Name:	OWC
Document Status:	Final for Issue
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Approved:	Jenny Hazzard
Date:	2021-11-05
Version	1
Project/Proposal Number:	2923
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## Revision History

Version	Date	Authored	Reviewed	Approved	Notes
01	2021-11-05	Jean Chabrelie	Emanuele Stela	J. Hazzard	

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# 1. The EIA Project Team

The EIA was undertaken and coordinated by ITPE and MarineSpace, supported by external consultants, as shown in

Table 1.1.

**Table 1.1 - EIA Team with detailed expertise.**

Organisation	Person	Project Role	Competency
TPE	Organisation Summary	Lead Onshore EIA Consultant and Project Consents Lead	ITPE is an environmental and energy consultancy, founded in 2013, focusing on renewable energy development and with significant experience in wind and other renewable energy technology applications across the UK.
	Jenny Hazzard (MSc Engineering Geology, BSc Geotechnical Engineering, PIEMA)	Onshore Project Director	Jenny has 21 years of experience in the environmental consultancy industry, with a broad background including EIA and environmental planning, risk assessment, due diligence, and contaminated land investigation.
	Emanuele Stella (MSc Aquatic Resource Management, BSc Marine Biology, MIEMA, CEnv)	Project Consent and Onshore EIA Lead	Emanuele has 15 years' experience in environmental consulting. He has been fulfilled a lead role in EIAs of large engineering schemes for projects undertaken on behalf of the Highways England, the Environment Agency, Network Rail as well as Local Authorities.
	Zak Ritchie (BEng Civil Engineering, MSc Hydrology and Water Resources, MCIWEM, C.WEM, CEng)	Onshore Geology, Hydrogeology and Hydrology Lead	Zak has over eight years' consultancy experience and is the Head of ITPE's Civil Engineering and Hydrology Team. His experience spans, civil engineering and water environment input to project design, flood risk assessments, surface water management plans, water quality monitoring and analysis, drainage and Sustainable Drainage Systems (SuDs) design, earthworks design and terrain modelling.

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	Allan Taylor (MSc Environmental Management, BA Geography, ACIEEM)	Onshore Ornithology Lead	Allan has seven years' experience in environmental consultancy with a strong focus on ornithology. Allan's experience includes conservation work for non-profit organisations, field surveying and Ecological and Ornithological Impact Assessment.
	Richard King (MSc Wildlife Biology and Conservation, BSc Science and Management Studies, MCIEEM)	Onshore Ecology Lead	Richard has 12 years' experience in environmental consultancy with a focus on both ecology and ornithology. Richard's experience spans field surveys, stakeholder engagement, Ecological Impact Assessments, Habitats Regulation Appraisal and species/habitat management plans.
	Alasdair Baxter (BSc Natural Sciences, MSc Environmental Management, PGDip Acoustics and Noise Control, MIOA)	Onshore Noise Lead	Alasdair has over 15 years' experience in noise and vibration assessments for a variety of acoustic projects with expertise in EIAs for schemes within the transport, renewable energy and industrial sectors, noise issues relating to planning applications and feasibility studies to enable appropriate site selection.
	Annie Danskin (BEng Environmental Engineering, CEnv, MIEEnvSc, Member IAQM)	Onshore Air Quality Lead	Annie Danskin has 22 years of experience in the field of air quality consultancy and research. Key projects include air quality impact assessments for EIAs, planning applications and Environmental Permits for schemes across a wide range of sectors. She is an experienced project manager a specialist in atmospheric dispersion modelling.

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MarineSpace	Organisation Summary	Lead Offshore EIA Consultant	<p>MarineSpace is a marine planning and environmental consultancy which provides specialist advice and services to clients across a range of sectors including offshore wind, marine renewables, floating offshore wind and submarine cables.</p> <p>MarineSpace applies extensive knowledge of the marine environment and experience to deliver advice, guidance, Environmental Impact Assessments, Habitats Regulations Assessments, monitoring plans, consenting and licensing permits and project lifecycle management to marine developers.</p>
	Jonny Lewis (MSc Applied Hydrobiology, BSc Marine Biology)	Offshore EIA Lead	Jonny has over 20 years' experience as a marine environmental consultant, specialising in EIA and consenting of development projects in the marine environment, including offshore renewable and is an experienced offshore wind EIA Project Manager.
	Lara Lawrie (MSc Spatial Planning and Development, BSc Marine Geography)	Offshore EIA Deputy Lead	Lara has over 13 years' experience as an Environmental Planner, specialising in infrastructure planning, consenting and policy within the marine and terrestrial environment. She has been involved in major infrastructure projects, including Developments of National Significance, Nationally Significant Infrastructure Projects and Section 36 Consents.
	Katie Cross (MSc Marine Environmental Protection, BSc, CSci, CMarSci)	<p>Offshore Marine and Coastal Ecology Lead</p> <p>Offshore Ornithology Lead</p> <p>Offshore Marine Mammals Lead</p>	Katie has over 15 years' experience as a marine professional, primarily in the consulting and survey contracting sectors with a strong understanding of marine biology and legislative frameworks which she applies to environmental assessments across all marine sectors including offshore renewables, oil and gas and advice to government bodies. Katie is also an IMarEST Charter Marine Scientist and Chartered Scientist

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	Oscar Ward (BSc, AMIMarEST)	Offshore Fish and Shellfish Ecology Lead	Oscar is a marine environmental professional specialising in marine benthic and fish ecology, survey design and data analysis. Oscar has practical fieldwork experience which, along with his knowledge, he applies to environmental assessments across all marine sectors.
	Sam Strutton (BSc, Member of SUT)	Offshore Archaeology and Cultural Heritage Lead (MS Lead)  Marine and Coastal Physical Processes (MS Lead)	Sam has over 10 years' experience of survey data collection, data interpretation, reporting and project management in the marine environment, gaining experience in marine survey and archaeology consultancies, providing Sam with extensive knowledge and application marine physical processes and marine archaeology to EIA for all marine sectors.
	Bethan Owens (MSc Marine Biology)	Offshore Commercial Fisheries Lead	Bethan has over 5 years' experience as a marine professional, undertaking environmental impact assessments focused on commercial fisheries and is experienced in providing Fisheries Liaison Officer services on projects.
	Rhianna Roberts (BSc Zoology)	Offshore Coastal and Marine Infrastructure and Other Users	Rhianna has over 4 years' experience as marine professional specialising in marine consenting and compliance as well as human environment assessments for EIA, particularly for the offshore wind and cables sectors.
	Damien Kirby (MSc Marine Environmental Protection, BSc Zoology, ACIEEM)	Marine Sediment and Water Quality Lead  Habitats Regulations Assessment Lead  Water Framework Directive Assessment Lead	Damien is a specialist in marine ecological monitoring and environmental regulation with over 9 years' experience in both the public (Cefas) and private sector. Damien is a specialist in ecological assessments including EIA, Habitats Regulations Assessment (HRA) and Water Framework Directive (WFD) and has experience in the resolution of issues raised during critical public examination and consenting.

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Hi-Def Aerial Surveying	Organisation Summary	Offshore Ornithology	Hi-Def is a respected technical marine wildlife consultancy with staff located across the UK and who provide nationwide and overseas services. In addition to world-leading aerial bird survey techniques and methods, with associated experts in flight operations, data management, quality assurance and analysis and presentation of ecological data, Hi-Def offers consultancy services. It collects, interprets, plots, analyses, maps and models data and presents it in industry leading formats. Hi-Def can take you through the environmental challenges of the development process, from start to finish, and foresee and mitigate challenges and obstacles.
	Catriona Gall (MSc, BSc (Hons), MCIEEM)	Offshore Ornithology Technical Lead	Catriona works as Principal Consultant with HiDef Aerial Surveying Limited and is a trusted EIA and HRA specialist for offshore wind farms with ornithological expertise and over 20 years' experience; she is a full member of the Chartered Institute of Ecology and Environmental Management (MCIEEM).
Sea Mammal Research Unit Consulting (SMRU)	Organisation Summary	Marine Mammals	SMRU Consulting is the world's leading marine mammal consultancy with an unrivalled reputation for providing innovative, robust, and environmentally sound solutions for clients active in the marine environment. The team is trained in this highly specialised field to help clients understand, assess, and mitigate the marine mammal challenge of their projects. SMRU Consulting work across all marine sectors including offshore wind, FLOW, wet renewables and regulatory/government body advice.
	Rachel Sinclair (MRes Marine Mammal Science, BSc)	Marine Mammal Technical Lead	Rachael is a Senior Scientist at SMRU Consulting with 7 years' experience specialising in marine mammal impact assessment and offshore wind farm consenting, working as both Project Manager and Technical Lead.

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MSDS Marine	Organisation Summary	Offshore Archaeology and Cultural Heritage	MSDS Marine are a Marine and Coastal Contractor specialising in the management, execution and support of archaeological projects in the marine environment. MSDS Marine have a wide range of experience and expertise within the industry from the project management of large scale underwater excavations through to the fulfilment of archaeological licence conditions prior to large infrastructure developments. MSDS Marine provide geophysical and hydrographic services including data collection, processing, visualisation and interpretation.
	Mark James (BSc Marine Archaeology, MCifA)	Marine Archaeology Lead	Mark is a qualified and experienced marine archaeologist with over 10 years' experience in the industry. Mark's particular expertise are in archaeological geophysics and the archaeological interpretation of data and the archaeological support of infrastructure projects. Mark is very experienced in data collection, data processing and data interpretation and has previously worked for the English archaeological regulator, English Heritage (now Historic England), in the Marine Planning Department prior to forming MSDS Marine.
	Sally Evans (MA Social Archaeology, BA Archaeology, ACifA)	Marine Archaeology Consultant	Sally has over 10 years' experience as a marine archaeologist, conducting desk-studies, EIA, setting and heritage assessments and deposit models for marine and terrestrial sites in Wales and the UK including renewable energy NSIPS. Sally has produced Written Schemes of Investigation, archaeological method and mitigation statements and has extensive fieldwork experience.



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Osprey Consulting Services Ltd (Osprey CSL)	Organisation Summary	Aviation and Radar	Osprey CSL is a specialist technical consultancy founded in 2006 with the purpose of developing a highly credible, informed and independent consultancy, operating exclusively on civil and military aviation projects. Over 14 years, Osprey CSL have assisted over 900 wind farms address aviation issues including identifying likely aviation constraints, developing mitigation plans and aviation stakeholder engagement.
	Lindsay Perks (CEng, MIET, BSc Computing Science)	Aviation and Radar Lead	Lindsay is a Chartered Engineer with over 20 years' experience as a technical consultant in the Defence, Aviation Safety and Renewable Energy sectors. Lindsay has experience in the assessment and treatment of the effects of wind energy development on aviation, both onshore and offshore.
Subacoustech Environmental	Organisation Summary	Underwater Noise	Subacoustech was originally formed in 1993 with Subacoustech Environmental Limited forming in 2008 to address the specific issues and uncertainties around the environmental effects of underwater noise from the emerging offshore renewables sector alongside other marine construction projects. Over 25 years, Subacoustech has built a catalogue of fully calibrated and documented underwater noise measurements which has contributed to the baseline underwater noise monitoring and predictive modelling assessments to EIAs across the world.
	Tim Mason (BEng Engineering Acoustics and Vibration, MIOA)	Underwater Noise Modelling Lead	Tim is an underwater noise specialist with over 20 years' experience of design and impact assessment of underwater noise. Tim has acted as an expert witness for planning enquiries with respect to underwater noise and its effects on marine life.

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NASH Maritime	Organisation Summary	Shipping and Navigation	NASH Maritime are a shipping and navigation specialist consultancy, providing solutions to shipping and navigation assessment and risk management for ports, maritime infrastructure, offshore renewable energy and oil and gas. Their maritime consultancy integrates practical expertise with quantitative analysis and modelling. The team has a combined experience of over 80 years working globally.
	Jamie Holmes (MSc, BSc, CEng, MIMarEST)	Shipping and Navigation Lead	Jamie is a Chartered Engineer and Project Management Professional with 15 years' experience in maritime and civil engineering consultancy. He has extensive track record in planning, design, environmental consenting, construction and operation of maritime infrastructure. Recent focus on winning, management and technical delivery of shipping and navigation assessments for ports / harbours, offshore renewables, major infrastructure developments, marine terminals and oil and gas facilities.
ABPmer	Organisation Summary	Marine and Coastal Physical Processes	ABPmer provides marine consultancy support to organisations around the globe and has been supporting design and construction of offshore and coastal infrastructure for more than 70 years. ABPmer are a leader in offshore, coastal and estuarine numerical modelling, with services underpinned by numerical models of waves, hydrodynamics, sediments, plumes, water quality and morphological change.

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	David Lambkin (PhD)	Marine and Coastal Physical Processes Lead	David is a Principal Consultant with over a decade of experience working in offshore wind. He has provided EIA and related modelling services for over 15 OWF projects. David also has led the development of the ABPmer SEASTATES regional hindcast models and related consultancy services and was the lead author of an industry best practice guidance report for the use of numerical modelling to inform OWF EIA. David has in depth experience of each phase of the consenting process, including attendance and presentation at public hearings.
Ocean Ecology Limited (OEL)	Organisation Summary	Marine and Coastal Ecology	OEL is a marine ecological consultancy that specialises in providing a range of marine ecological surveys, analysis and consultancy services to feed into EIAs, monitoring programmes and research projects. OEL has specific expertise in assessing and monitoring benthic and epibenthic communities, Annex I habitats, fisheries and marine mammal populations and provides expert advice on the design and implementation of marine monitoring to both developers and the UK's regulatory bodies.
	Ross Griffin (MSc Applied Marine Science, CSci)	Marine Ecology Specialist Fish and Shellfish Ecology Specialist	Ross is an experienced marine ecologist and Chartered Marine Scientist providing expert advice on marine monitoring programmes and their compliance with relevant legislation. Ross has developed industry guidance and is currently providing expert advice to NRW on assessing marine habitats.

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Optimised Environments Ltd (OPEN)	Organisation Summary	Seascape, Landscape and Visual Consultants	OPEN is a multi-disciplinary design company with landscape architecture and environmental planning at its core. Over the past 15 to 20 years, the team at OPEN has gained considerable knowledge and experience in the production of Landscape Visual Impact Assessments (LVIAs) for energy related developments and are specialists in this field. Projects have been undertaken all across the UK and include a broad range from onshore and offshore wind, hydro and solar projects, to transmission grid and gas fired power stations.
	Stuart Cargill (MLA, BA Fine Arts, CMLI)	Onshore Landscape and Visual Impact Assessment (LVIA Lead)	Stuart Cargill is a chartered Landscape Architect of Optimised Environments (OPEN), who specialises in landscape planning and Landscape and Visual Impact Assessment (LVIA) and its related fields - TVIA (Townscape Assessment), SLVIA (Seascape Assessment) and SEA (Strategic Environmental Assessment).
	Simon Martin (MA Landscape Planning and Management, CMLI)	Offshore Seascape, Landscape and Visual impact assessment (SLVIA) Lead	Simon is an Associate of OPEN with 20 years' professional experience in landscape practice, specializing in LVIA of development, including offshore wind farms. During his professional landscape practice, Simon has gained considerable expertise in the fields of LVIA; SLVIA, landscape planning and feasibility; and the wider EIA process. Over recent years, Simon has been the lead assessor for the SLVIAs for several offshore wind farms in UK waters, including projects in the Moray Firth in Scotland and a number of Nationally Significant Infrastructure Projects (NSIP) off the southern and eastern coasts of England. These have included SLVIA site survey works, impact assessment reporting, leading expert topic group meetings and consultation events, and giving evidence during examination at issue specific hearings.

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DAT Archaeological Services	Organisation Summary	Onshore Archaeological Consultants	DAT provide consultancy advice, desk-top assessments, evaluations, excavations, geophysical surveys, buildings surveys, watching briefs and topographic surveys. They have undertaken over 2000 projects, ranging in size from small-scale watching briefs to large-scale excavation in advance of major developments, in a variety of environments, including rural, urban, intertidal and upland. Including the Greenlink Interconnector project.
	Philip Poucher (MCIfA)	Onshore Archaeology and Cultural Heritage Lead	Philip has over 20 years' experience in commercial archaeology and has prepared a number of Environmental Statement Chapters over the previous 10 years.
Cundall Johnstone and Partners LLP (Cundall)	Organisation Summary	Onshore Transport Consultants	Cundall are an international multidisciplinary engineering consultancy, working seamlessly across more than 20 global locations to deliver exemplary solutions for our clients. Cundall's Transportation team have extensive experience supporting a wide range of projects throughout the UK and provide consultancy advice to support all stages of a site's development from pre to post planning stages.
	Graeme Low (HND BSc (Hons) MCIHT CEng)	Onshore Transport Lead	Graeme has over 20 years' experience in the area of Transport Planning and has provided consultancy advice and managed technical studies to support a range of projects throughout the UK in both the public and private sectors. He also has experience working as an Area Manager for Transport Scotland. He has managed and provided technical input to the preparation of Access Appraisals, Transport Assessments, EIA Transportation Chapters, Masterplans, Parking Strategies and Travel Plans to support the development of sites for a range of uses including renewable, residential, employment, retail and education.

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WSP	Organisation Summary	Socio-economic Consultants	WSP is a global engineering company, designing and building major infrastructure. In the UK WSP produces socio-economic impact chapters for EIAs across a number of different sectors, including energy and marine sectors. WSP also undertake health impact assessments and economic impact analyses with the latter focussing on employment impacts in local areas and supply chains.
	Ursula Stevenson (CEnv, MIEMA, REIA)	Socio-economic Lead	Ursula Stevenson has an MSc Environmental Management and Assessment, is Registered Environmental Impact Assessor (REIA), Chartered Environmentalist (CEnv) and Member of the Institute of Environmental Management and Assessment (MIEMA). She is a Technical Director at WSP with 20 years' experience in EIA with experience spanning socio-economic, health and equalities assessments for infrastructure projects.
Turley	Organisation Summary	Planning Consultant	Turley is a full service national planning and development consultancy. Turley are experienced in delivering projects via a broad range of consenting regimes, including Section 36.
	Rob Peters BSc (Hons) DipTP MRTPI	Lead Planning Consultant	Rob has worked in private sector planning consultancy across the UK for over 30 years. Rob has presented expert evidence in a range of Inquiry and other planning forums relating to a wide range of sectors and land uses.
	Huw Jones BSc (Hons) MSc MRTPI	Lead Planning Consultant	Huw has nearly fifteen years' private sector planning consultancy experience, working on projects across Wales and the wider UK. Huw leads Turley's planning team in Wales and has provided strategic planning advice regarding the delivery of a broad range of projects.



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