



Bellrock Offshore Wind Farm

Wind Farm Development Area

Environmental Impact Assessment Report - Volume IV

Appendix 1.3: Qualifications and Experience of the Bellrock WFDA EIA
Project Team

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Glossary of Abbreviations

Term	Definition
ASTI	Accelerated strategic transmission investment
CBF	Community benefit fund
CCUS	Carbon capture, usage and storage
CES	Crown Estate Scotland
EIA	Environmental impact assessment
GHG	Greenhouse gas
GIS	Geographical information systems
HRA	Habitats Regulation Appraisal
INTOG	Innovation and Targeted Oil & Gas
NRA	Navigational Risk Assessment
RAMSgeo	Range-dependent Acoustic Model
RSPB	Royal Society for the Protection of Birds
UK	United Kingdom
US	United States of America
UXO	Unexploded ordnance
WFDA	Wind Farm Development Area

1 Introduction

1.1 Project Team

1. This Qualifications and Experience of the Bellrock WFDA EIA Project Team Report is an appendix to **Chapter 1: Introduction (Volume I)** of the Bellrock Wind Farm Development Area (WFDA) Environmental Impact Assessment (EIA) Report.
2. The Bellrock WFDA EIA Report has been prepared by competent experts. A statement outlining their relevant experience and qualifications is set out in **Table 1.1** below.

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Table 1.1: Qualifications and Experience of the Bellrock Wind Farm Development Area EIA Report Project Team

Expert	Company	Qualifications	Relevant Experience
EIA Technical Director	Haskoning	<ul style="list-style-type: none"> ▪ Master of Science, Marine Resource Development and Protection ▪ Bachelor of Science (Hons), Marine Biology ▪ Health and Safety Executive (HSE) Part IV ▪ Vice-Chair of The World Association for Waterborne Transport Infrastructure (PIANC) 	<p>The EIA Technical Director, with over 30 years' expertise in marine ecology and environmental input to design of marine developments, managing environmental impact assessment, undertaking stakeholder engagement, devising baseline survey and monitoring programmes and developing appropriate mitigation measures and management plans.</p> <p>They have managed and provided expertise on many large- scale projects, in the UK and globally. They have also provided expert advice on proposals and compensation projects for Offshore Wind Farms and aquaculture facilities. Key experience on Offshore Wind Farm projects include Hornsea 3 Offshore Wind Farm, where they provided technical input and advised on benthic ecological aspects.</p>
EIA Project Director	Haskoning	<ul style="list-style-type: none"> ▪ Bachelor of Science: Quantity Surveying ▪ Postgraduate Diploma in Project Management (DipProjMan) ▪ Fellow of the Royal Institution of Chartered Surveyors (FRICS) 	<p>The Project Director has over 35 years' experience in the offshore wind, building and civil engineering industries and is a Fellow of the Royal Institution of Chartered Surveyors. They have managed a number of high profile, complex projects in the UK and globally, including several Offshore Wind Farm projects (East Anglia ONE North and East Anglia TWO Offshore Wind Farms and Morecambe Generation Assets).</p> <p>They have a proven track record of delivering large-scale infrastructure projects in Scotland. They have worked closely with the Moray Council in Scotland over an 11 year period delivering flood defence infrastructure. Their activities have included project managing the Elgin Flood Alleviation Scheme, the largest flood alleviation scheme in Scotland, through the outline design stage.</p>
EIA Consents Lead	Haskoning	<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Environmental Biology ▪ Master of Science, Marine Resources Development and Protection ▪ Practitioner of the Institute of Sustainability and Environmental Professionals (PISEP) 	<p>The EIA Consents Lead has 20 years of experience in EIA for Offshore Wind Farms (fixed and floating) and commercial wave and tidal energy developments across the UK, including in the capacity of project manager and EIA co-ordinator, for site selection, managing the consenting process, working within multi-disciplinary teams and co-ordinating technical specialists.</p> <p>They have co-ordinated and written chapters for Scoping Reports, Environmental Statements/EIA Reports and associated documents, Supplementary Environmental Information Reports and Habitats Regulations Appraisals (HRAs), post-consents work, and Marine Licence applications. Their technical background covers both terrestrial and marine</p>

Expert	Company	Qualifications	Relevant Experience
		<ul style="list-style-type: none"> ▪ Full Member of the Chartered Institute of Ecology and Environmental Management (MCIEEM) 	<p>ecology and they have most recently led the EIA process for the Green Volt Offshore Wind Farm.</p>
<p>Marine Geology, Oceanography and Physical Processes Lead</p>	<p>Haskoning</p>	<ul style="list-style-type: none"> ▪ Doctor of Philosophy (PhD), Environmental Sciences ▪ Master of Science, Oceanography ▪ Bachelor of Science (Hons), Geology ▪ Fellow of the Geological Society London (FGS) 	<p>The marine geology, oceanography and physical processes lead has over 17 years of experience, specialising in coastal and marine processes and geomorphology and leads the geomorphology technical practice at Haskoning. They have provided technical expertise and advice to support marine planning across a range of offshore industries including renewable energy, marine aggregate extraction, interconnectors, ports and harbours, and coastal protection.</p> <p>Working closely with regulators and government bodies, they have contributed to marine planning guidance and strategic frameworks. They have acted as the technical lead on numerous offshore Wind Farms, including Dogger Bank D, Green Volt and Sheringham Shoal and Dudgeon Extension Projects, working on analysing geophysical, geotechnical, metocean and coastal geomorphological data to understand baseline conditions and assess potential impacts.</p>
<p>Benthic Ecology Lead</p>	<p>Haskoning</p>	<ul style="list-style-type: none"> ▪ Master of Science, Marine Resource Development and Protection ▪ Bachelor of Science (Hons), Marine Biology ▪ Health and Safety Executive (HSE) Part IV ▪ Vice-Chair of The World Association for Waterborne Transport Infrastructure (PIANC) 	<p>The benthic ecology lead is a Technical Director, with over 30 years' expertise in marine ecology and environmental input to design of marine developments, managing environmental impact assessment, undertaking stakeholder engagement, devising baseline survey and monitoring programmes and developing appropriate mitigation measures and management plans.</p> <p>They have managed and provided expertise on many large-scale projects, in the UK and globally. They have also provided expert advice on proposals and compensation projects for Offshore Wind Farms and aquaculture facilities. Key experience on Offshore Wind Farm projects include Hornsea 3 Offshore Wind Farm, where they provided technical input and advised on benthic ecological aspects.</p>
<p>Fish and Shellfish Ecology Lead</p>	<p>Haskoning</p>	<ul style="list-style-type: none"> ▪ Doctor of Philosophy (PhD), Marine Biology ▪ Master of Science, Marine Environmental Protection 	<p>The fish and shellfish ecology lead has over six years of experience specialising in providing advice on marine fish, invertebrates, and underwater noise. They have particular expertise in underwater sound and vibration, including monitoring, reporting, and its impacts on invertebrates and fish. They have authored a number of fish and shellfish EIAs, provided information for HRAs, and participated in many other aspects of the EIA process, analysis of</p>

Expert	Company	Qualifications	Relevant Experience
		<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Natural Sciences (Biology and Anthropology) ▪ Full Member of the Institute of Sustainability and Environmental Professionals (MISEP) ▪ Chartered Environmentalist (CEnv) 	<p>potential impacts and mitigation, Measures of Equivalent Environmental Benefit and HRA derogations.</p> <p>Recent experience include fish and shellfish assessment for Green Volt Offshore Wind Farm, Moray West Offshore Windfarm, Morecambe Offshore Wind Farm, Dogger Bank South Offshore Wind Farm, Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects, and Dogger Bank D Offshore Wind Farm and authoring the Marine unexploded ordnance (UXO) Survey Best Practice for Defra (Department for Environment, Food and Rural Affairs).</p>
Marine Mammals Lead	Haskoning	<ul style="list-style-type: none"> ▪ Master of Research (MRes), Environmental Biology ▪ Bachelor of Science (Hons), Marine Biology and Coastal Ecology 	<p>The marine mammals lead has over 10 years of experience and has provided marine mammal consultancy services to a range of industries, including renewable energy, marine cabling, and ports and harbours. They specialise in contributing to EIAs, HRAs and European Protected Species risk assessments, and provide technical advice to clients on marine mammals.</p> <p>Previous experience in offshore wind projects include Moray West Offshore Wind Farm, where they led the marine mammal elements of the EIA and HRA assessments and post-consent support as Ecological Clerk of Works, and Morecambe Offshore Wind Farm, where they co-authored marine mammal assessments and prepared risk assessments for geophysical surveys.</p>
Offshore Ornithology Lead	Haskoning	<ul style="list-style-type: none"> ▪ Doctor of Philosophy (PhD): Applied Ornithology ▪ Bachelor of Science (Hons), Ecological Science 	<p>The offshore ornithology lead has over 27 years of experience as an ornithologist, and previous experience working for the Royal Society for the Protection of Birds (RSPB) where they published scientific literature and contributed to several books on ornithology and ecology. They specialise in EIA, HRA and technical writing and reviewing, and assessing the ornithological impacts of renewables developments, including Offshore Wind Farms.</p> <p>Their Offshore Wind Farm experience includes provision of technical support to the recently consented Sheringham Shoal and Dudgeon Extension Projects, Inch Cape Offshore during its judicial review (and subsequent appeal), developing approaches to assessing diving bird collision risk and being an invited expert on Marine Scotland Science research project steering groups and producing the HRA ornithology chapter for the Berwick Bank Offshore Wind Farm HRA.</p>

Expert	Company	Qualifications	Relevant Experience
Commercial Fisheries Lead	NiMa	<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons) Marine Biology ▪ Bachelor of Chemical Engineering (Hons) 	<p>The commercial fisheries lead, co-director and co-founder of NiMa, possesses extensive experience in marine fisheries and aquaculture consulting, spanning over 19 years. With a background in chemical engineering and marine biology, they specialise in assessing the impact of offshore renewable energy on marine environmental sustainability. They are recognised as an expert in Principle 2 (ecosystem) and serves as an assessor for the Marine Stewardship Council (MSC) certification scheme, including Fishery Improvement Projects for shellfish species in the UK.</p> <p>They take the lead in evaluating the effects of offshore wind and wet renewable energy developments, specifically conducting assessments for commercial fisheries. Currently, they are actively involved in offshore renewables projects in the North Sea, Irish Sea, and West of Scotland.</p>
		<ul style="list-style-type: none"> ▪ Master of Science Tropical Coastal Management ▪ Bachelor of Arts (Hons) Geography 	<p>Supporting the commercial fisheries lead is the co-director and co-founder of NiMa; who has 19 years of marine consulting experience. They have provided consultancy support to a variety of marine sectors including fisheries and aquaculture, ports and harbours, oil and gas, and most extensively to offshore renewables. They support clients through all aspects of the development process from site selection and feasibility through to EIA and consent application and subsequent consent compliance. Their experience helps clients ensure compliance and identify opportunities, constraints and risks to development projects.</p> <p>They have particular expertise in the consenting of, and consent compliance associated with offshore wind farm projects and have provided consenting support and advice to a number of offshore wind farm developers. They have specific technical experience in undertaking commercial fisheries impact assessment for offshore wind farm projects.</p>
Shipping and Navigation Lead	Anatec	<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Mathematics 	<p>The shipping and navigation lead has been involved in navigational risk in the marine sector for the last nine years, with experience primarily in the renewable energy industry, and specifically Offshore Wind Farms. They are experienced with considering the viability of potential sites for shipping and navigation with consideration of available baseline sources, consideration of relevant guidance, and an understanding of likely stakeholder concerns. They have managed the completion of the Navigational Risk Assessment (NRA) for various projects inclusive of vessel traffic analysis, quantitative modelling of future case scenarios and organising stakeholder consultation. Such projects have included ScotWind, Innovation and Targeted Oil and Gas (INTOG), Crown Estate Scotland (CES) Rounds 3/4 and Ireland Phase One.</p>

Expert	Company	Qualifications	Relevant Experience
		<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Shipping and Port Operations 	<p>Supporting the shipping and navigation lead is the Director at Anatec, who has 25 years' experience within the maritime industry dealing with port and vessel operations as well as offshore installations. Since joining the marine consultancy industry, they have been actively involved in the majority of offshore renewable projects in the UK, as well as projects across the UK, Europe, United States of America (US), Asia and Australia.</p> <p>Pre-consent expertise includes as a marine navigation advisor for offshore developments, hazard assessments and workshops, spatial planning, individual site design, stakeholder management and mitigation strategies. They have managed NRAs undertaken as part of the wider consenting process for various projects including ScotWind, INTOG, CES Rounds 3 and 4 and Ireland Phase One.</p>
Aviation and Radar Lead	Cyrus	<ul style="list-style-type: none"> ▪ Bachelor of Engineering (Beng) (Hons), Electrical Engineering 	<p>The aviation and radar lead has a Bachelor of Engineering and over 30 years' experience in the aviation sector, including 20 years as a flight inspector of airport and enroute navigation aids. At Cyrus, they are responsible for all aspects of aviation technical safeguarding, from studying the effects of proposed developments on an airport's operation to assessing the impact of wind turbines on radar.</p> <p>They have provided aviation expertise for numerous windfarm projects, both onshore and offshore. This includes the modelling of radar impacts and potential mitigations, the drafting of aviation chapters and technical appendices, and consultation with civilian and military aviation stakeholders.</p>
		<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Geography 	<p>Supporting the aviation and radar lead, this specialist has a BSc, over seven years of experience using Geographic Information Systems (GIS) and over two years' experience working in the aviation sector. At Cyrus, they are responsible for completing EIA chapters for offshore wind farms, conducting radar line of sight modelling, and conducting technical and physical safeguarding assessments for proposed developments within the vicinity of aerodromes.</p>
Marine Infrastructure and Other Users Lead	Haskoning	<ul style="list-style-type: none"> ▪ Master of Science, Marine Resources Development and Protection ▪ Bachelor of Science (Hons), Environmental Biology 	<p>The Marine Infrastructure and Other Users Lead has 20 years of experience in EIA for offshore Wind Farms (fixed and floating) and commercial wave and tidal energy developments across the UK, including in the capacity of project manager or EIA co-ordinator, for site selection, managing the consenting process, working within multi-disciplinary teams and co-ordinating technical specialists.</p>

Expert	Company	Qualifications	Relevant Experience
		<ul style="list-style-type: none"> ▪ Practitioner of the Institute of Sustainability and Environmental Professionals (PISEP) ▪ Full Member of the Chartered Institute of Ecology and Environmental Management (MCIEEM) 	<p>They have co-ordinated and written chapters for Scoping Reports, Environmental Statements/EIA Reports and associated documents, Supplementary Environmental Information Reports and HRAs, post-consents work, and Marine Licence applications.</p> <p>Their technical background is in both terrestrial and marine ecology. They have most recently led the EIA process for the Green Volt Offshore Wind Farm.</p>
<p>Marine Archaeology and Cultural Heritage</p>	<p>Haskoning</p>	<ul style="list-style-type: none"> ▪ Master of Arts (MA), Maritime Archaeology ▪ Bachelor of Arts (BA), Archaeology and Prehistory ▪ Full Member of the Chartered Institute for Archaeologists (MCIfA) 	<p>The marine archaeology and cultural heritage lead has 25 years of experience in coastal and marine archaeology and cultural heritage projects. They are responsible for producing a wide range of technical reports including baseline and impact assessment reports, Written Schemes of Investigation and archaeological method statements. They also provide advice on compliance with planning and Marine Licence conditions and co-ordinate the implementation of mitigation strategies and regulatory liaison to ensure the effective delivery of client projects, while preventing significant impacts to coastal and marine heritage.</p> <p>Experience on offshore wind projects include Moray West and Moray East Offshore Wind Farms, in which they oversaw the pre-construction and construction phases, and support on Morecambe Offshore Wind Farm and Dogger Bank South Offshore Wind Farm in which they provide offshore archaeology and survey programme support and advice.</p>
<p>Socioeconomics, Tourism and Recreation Lead</p>	<p>BiGGAR Economics</p>	<ul style="list-style-type: none"> ▪ Master of Arts (Hons), Mathematics and Economics ▪ Member of the Economic Development Association Scotland 	<p>The socioeconomics, tourism and recreation lead has 15 years' experience within the private and public sector renewable energy industry, with particular emphasis on offshore wind and grid sectors, in the UK and Ireland. They have extensive experience in project management of large infrastructure projects, particularly within stakeholder and communications, project controls and consenting departments. Their project experience includes stakeholder and communications external affairs management, supply chain development, economic modelling and cost estimation, development and management of renewables policy, community benefit fund (CBF) and Corporate Social responsibility (CSR), events, skills development, and marketing.</p> <p>Recent infrastructure project experience includes Muir Mhòr Offshore Wind Farm, Codling Wind Park Offshore Wind Farm, and Inch Cape Offshore Wind Farm, and associated grid infrastructure. They have also been Project Director on multiple Onshore Wind Farm, battery energy storage systems (BESS) and solar EIA and socioeconomic and tourism and recreation impact assessments; the benefits realisation of the Strategic Investment Model (SIM); and Peterhead Energy Transition Forum Vision.</p>

Expert	Company	Qualifications	Relevant Experience
		<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Mathematics ▪ Member of the Economic Development Association Scotland 	<p>Supporting the socioeconomics, tourism and recreation lead, this specialist is an experienced economist with strong quantitative analysis and considerable expertise in project management and economic modelling. They have undertaken and project managed preparation of the EIA chapter for Caledonia Offshore Wind Farm and Buchan Offshore Wind Farm as well as socioeconomic and tourism and recreation impact assessments for multiple Onshore Wind Farms, Scottish and Southern Electricity Networks' Accelerated Strategic Transmission Investment (ASTI) grid upgrade projects, and carbon capture, usage and storage (CCUS) projects.</p>
Greenhouse Gas Assessment Lead	Haskoning	<ul style="list-style-type: none"> ▪ Master of Sciences, Environmental Modelling, Monitoring and Management ▪ Bachelor of Science, Geography (Hons) 	<p>The greenhouse gas assessment lead has 12 years of experience, specialising in carbon and greenhouse gas assessments, foot-printing and decarbonisation roadmaps. They have a broad range of experience in the environmental consulting sector including in EIA, Environmental Permitting and post-consent discharge of planning conditions. Their area of expertise includes both greenhouse gases (GHGs) emissions and pollutants affecting human health (air quality). Their project experience extends to a range of sectors, but they have a particular understanding of the ports and maritime, and energy sectors.</p> <p>They are experienced in carrying out carbon and GHG assessments as part of the EIA process in the UK, and a range of other international countries. They also provide environmental advice and post-consent support to offshore wind projects, including the Norfolk Boreas Offshore Wind Farm, Vanguard Offshore Wind Farm and Triton Knoll Offshore Wind Farm.</p>
Climate Change Resilience Lead	Haskoning	<ul style="list-style-type: none"> ▪ Master of Engineering (MEng (Hons)) ▪ Chartered Engineer (CEng) ▪ Member of the Institution of Civil Engineers (MICE) ▪ Master of Sciences, Environmental Modelling, Monitoring and Management 	<p>The climate change resilience lead has 25 years of experience and specialises in climate resilience, coastal engineering and flood risk management, with a focus on climate change risk assessments, developing adaptation and resilience solutions, and optioneering for adaptation and resilience solutions. They have a proven track record in stakeholder engagement and collaborate projects.</p> <p>They have previous experience in Offshore Wind Farm projects, including leading the climate change resilience for Dogger Bank D Offshore Wind Farm and Buchan Offshore Wind Farm, assessing potential future climate impacts and mitigation measures. They have also directed climate resilience studies for Peel Ports and oversaw the Firth of Clyde Flood Forecasting and Warning Improvements.</p>

Expert	Company	Qualifications	Relevant Experience
Major Accidents Lead	Haskoning	<ul style="list-style-type: none"> ▪ Master of Sciences, Marine Resources Development and Protection ▪ Bachelor of Science (Hons), Environmental Biology ▪ Practitioner of the Institute of Sustainability and Environmental Professionals (PISEP) ▪ Full Member of the Chartered Institute Chartered Institute of Ecology and Environmental Management (MCIEEM) 	<p>The major accidents lead has 20 years of experience in EIA for Offshore Wind Farms (fixed and floating) and commercial wave and tidal energy developments across the UK, including in the capacity of project manager or EIA co-ordinator, for site selection, managing the consenting process, working within multi-disciplinary teams and co-ordinating technical specialists.</p> <p>They have co-ordinated and written chapters for Scoping Reports, Environmental Statements/EIA Reports and associated documents, Supplementary Environmental Information Reports and HRAs, post-consent work, and Marine Licence applications. Their technical background is in both terrestrial and marine ecology. They have most recently led the EIA process for the Green Volt Offshore Wind Farm.</p>
Underwater Noise Consultants	Subacoustech Environmental	<ul style="list-style-type: none"> ▪ Bachelor of Science (Hons), Music and Sound Technology ▪ Associate Member of the Institute of Acoustics (AMIOA) 	<p>The underwater noise modelling lead has 16 years' experience in the development and execution of underwater noise models. Oversees development of the INSPIRE underwater noise model and INSPIRE Light model; a cut down version of INSPIRE which can be used in meetings and workshops. Experienced with the Range-dependent Acoustic Model (RAMSGeo) and dBSea acoustic models. Involved with noise measurements and data analysis of various sources of underwater noise including impact piling, drilling vessel noise and diving equipment. Highly skilled in technical report writing and graphic representation of data.</p>
		<ul style="list-style-type: none"> ▪ Bachelor of Engineering (BEng) (Hons), Acoustical Engineering ▪ Member of the Institute of Acoustics (MIOA) 	<p>Also contributing to underwater noise modelling is the Project Manager and Principal Consultant, who has continuous post-graduate consultancy experience since 2001 in design and impact assessment of both underwater and traditional airborne noise situations. Responsible for project management and quality assurance in addition to technical consultancy and reporting. Alongside our modelling lead, has undertaken underwater noise EIAs at most of the Offshore Wind Farms in the UK. Acts as an expert witness for planning enquiries with respect to underwater noise and its effects on marine life.</p> <p>Experienced in a wide range of acoustic disciplines in addition to underwater noise modelling and monitoring; other disciplines include road, rail and construction noise impacts, industrial noise mapping and control, planning and architectural acoustics, vibration and noise nuisance. Delivered presentations on underwater noise impacts at national and international conferences and has been invited to speak on underwater noise at the Royal Society.</p>

Expert	Company	Qualifications	Relevant Experience
Predator control and biosecurity (Derogation) consultants	Habitat Assessment and Restoration Ltd	<ul style="list-style-type: none">▪ Bachelor of Science (Hons): Environmental Science	After spending over 25 years as an environmental consultant, health and safety practitioner, and environmental communicator, the Director of Habitat Assessment and Restoration Ltd now leads a dedicated team of colleagues and associates. The Director's specialisms include ecological restoration, invasive species and EIA.

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