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Volume 7A Overview Chapter Appendices

Appendix 1-1 Competent Experts

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Acronyms and Abbreviations

BA	Bachelor of Arts
BEng	Bachelor of Engineering
BSc	Bachelor of Science
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report
GHG	Greenhouse Gases
HRA	Habitat Regulation Appraisal

1 Competent Experts

1.1 Introduction

1.1.1.1 This appendix provides details on the Environmental Impact Assessment (EIA) team who have prepared this Environmental Impact Assessment Report (EIAR).

1.1.1.2 This EIAR was prepared by a multi-disciplinary consultancy team of competent experts led by Arup and supported by offshore EIA consultants, GoBe Consultants Ltd along with a team of technical specialists sub-consultants including:

- Subacoustech Environmental Limited;
- ITP Energised (part of SLR);
- APEM Limited;
- SMRU Consulting;
- Nima;
- Anatec Limited;
- Wessex Archaeology;
- Optimised Environments Limited;
- Cyrrus; and
- BiGGAR Economics Ltd.

1.1.1.3 In line with requirements of the EIA regulations, Table 1-1 provides a summary of all technical leads who have contributed to this EIAR. The specialists are deemed to be qualified and competent experts in their fields given their academic qualifications, professional affiliations, and professional experience on other EIA Projects. All technical chapters have been supported by appropriately qualified technical specialists and where appropriate technical experts have also fed into design development and site selection activities.

Table 1-1: Summary of Competent Experts

Organisation	EIA Specialist	Project Role	Qualification/Expertise
Arup	Ed Crowley	Overall EIA Lead	Ed Crowley has a Bachelor of Science (BSc) Aquatic Bioscience and a Master of Science (MSc) Aquatic Resource Management degree. Ed is a Chartered Environmentalist and a Full Member of the Institute of Environmental Management and Assessment. Ed has significant EIA experience in the UK and overseas and has worked in this area for over 18 years. Ed specialises in the assessment of major infrastructure projects in the energy and transportation sector.
Arup	Georgia Sweeney	Onshore EIA Project Manager	Georgia Sweeney has a Master of Arts (MA) Geography and an MSc Urban and Regional Planning degree. Georgia has over 10 years' experience of managing EIA projects spanning energy, highways, and rail major infrastructure projects. She has extensive experience of managing projects from early design and development to project execution and operation.
GoBe	Gayle Boyle	Offshore EIA Lead	Gayle Boyle has a BSc Marine Biology and an MSc Fisheries Biology and Management degree. Gayle is a Chartered Environmentalist and a member of the Chartered Institute of Ecology and Environmental Management and the Marine Biological Association. Her experience within environmental consultancy extends over 22 years, with key expertise being within the fields of ecology, EIA, and Habitats Regulations Appraisal (HRA). She is a Divisional Director within GoBe, and her key roles are technical lead to the Scottish team and overseeing project excellence.
GoBe	David Honey	Offshore EIA Project Manager and Marine Water and Sediment Quality Lead	Dr David Honey has a PhD in Marine Biogeochemistry. David has over 10 years' experience in project management and marine licensing, with a technical specialism in marine water and sediment quality. He has led on the delivery of numerous

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			<p>marine water and sediment quality chapters to support environmental assessments, including offshore renewables, port developments, dredging applications (aggregate, maintenance, and capital), disposal site characterisation and coastal remediation. David has also routinely produced Water Framework Directive compliance assessments for projects and activities in the marine and coastal environment.</p>
GoBe	Claire Hinton	Marine and Coastal Processes Lead	<p>Dr Claire Hinton has a BSc Marine Science degree and a PhD in Geomorphology. Claire is the Technical Lead for Coastal and Marine Processes within GoBe. With over 20 years' experience, she has provided this technical expertise to a number of marine industries, including offshore wind. Within the offshore wind industry, she has applied this expertise for EIA purposes to provide in-depth technical and assessment reports for consenting purposes, in addition to post-consent support.</p>
Arup	Keith Robertson	Carbon and Climate Change Lead	<p>Keith Robertson has a Bachelor of Engineering (BEng) Mechanical Engineering and an MSc Urban Water and Environmental Management degree. Keith is a Chartered Engineer with 19 years' experience working in the field of sustainable development, climate change, and carbon management. Keith acted as Competent Expert for the Climate topic for the A66 Northern Trans-Pennine Project. Keith has also acted as greenhouse gases (GHG) topic lead for a range of Environmental Impact Assessments across transport, energy, water, and mixed-use development types. Keith also acted as route-wide coordinator for the GHG assessment for HS2 Phase 2b.</p>

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Subacoustech Environmental Limited	Tim Mason	Underwater Noise Lead	Tim Mason has a BEng degree and is a member of the institute of acoustics. He is Principal Consultant at Subacoustech Environmental, a specialist underwater acoustic consultancy, and has focused on underwater noise relating to offshore wind projects for 12 years. Prior to this, Tim had 10 years' experience in general acoustic consultancy.
Arup	Matt Brennan	Hydrology and Hydrogeology Lead	Matthew Brennan has a BSc Geography and an MSc Sustainable Water Management degree. Matthew is a Chartered Member of the Chartered Institute of Water and Environmental Manager and Fellow of the Geological Society of London. Matthew has worked as a water environment specialist for more than 10 years and has experience leading water environment and flood risk assessments, including EIA chapters and associated technical appendices, across the United Kingdom.
Arup	Joan Gillespie	Ground Conditions, Geology and Contaminated Land Lead	Joan Gillespie has a BSc Environmental Technology degree. Joan is a Chartered Scientist and Member Institution of Environmental Sciences with over 25 years' experience in the assessment, investigation and remediation of brownfield land and linear infrastructure projects, serving both internal and external clients. She has considerable experience in undertaking feasibility studies, desk studies, intrusive investigations and human health, water environment and gas risk assessments.
ITPEnergised	Simon Waddell	Airborne Noise and Vibration Lead	Simon Waddell has an Institute of Acoustics Postgraduate Diploma in Acoustics and Noise Control. Simon is a corporate member of the Institute of Acoustics. With 12 years of experience in environmental acoustics, Simon is experienced with EIAs for wind farm and similar projects. Simon has recently been involved in over 50 projects relating to electrical

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			infrastructure including substations, battery energy storage systems and solar developments.
Arup	Fraser Maxwell	Terrestrial Ecology and Biodiversity Lead	Fraser Maxwell has a BSc Environmental Science and an MSc Ecology degree. Fraser is a Chartered Environmentalist and qualified Ecologist and a full Member of the Institute of Ecology and Environmental Management. Fraser is an Associate Director at Arup and an Ecologist with over 23 years of experience. He leads the Nature team of 30 staff for Arup's North and North West and Yorkshire geographies. Fraser has a strong track record of Ecological Impact Assessment, emerging Biodiversity Net Gain implications, delivering HRA input on complex projects, and solving challenging protected species and consenting issues.
GoBe	Angie de Burgh	Benthic Subtidal and Intertidal Ecology Lead	Angie de Burgh has a BSc Marine Biology and an MSc Environmental Consultancy degree. Angie has over 13 years' experience providing scientific advice on the impacts of major industrial and construction developments in the marine environment. Angie has recently been the benthic technical lead for the Rampion 2, Five Estuaries, Outer Dowsing, Hornsea Four and Awel y Môr OWF project.
GoBe	Anna Luff	Fish and Shellfish Lead	Anna Luff has a BSc Natural History and an MSc Environmental Consultancy degree. Anna is a Senior Environmental Consultant, with a background in natural history and marine biology and has over 5 years' experience working in the offshore wind industry. Within GoBe, Anna has worked as the fish and shellfish ecology technical lead in EIA work for the Awel y Mor, Five Estuaries, Outer Dowsing, Hornsea Four, Dublin Array, Caledonia, Muir Mhor and Rampion 2 Offshore Windfarms.

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APEM	Zoe Mackay	Offshore Ornithology Lead	Zoe Mackay has a BSc Marine Biology and an MSc Marine and Fisheries Ecology degree. Zoe is currently undertaking a PhD Environment and Geography. Zoe is a Principal Consultant with eight years' of experience. She specialises in numerical modelling and statistical analysis with a focus on seabird ecology.
SMRU Consulting	Rachael Sinclair	Marine Mammals and other Megafauna Lead	Rachael Sinclair has a BSc Marine Biology and a Master of Research degree in Marine Mammal Science. With 10 years of experience as a marine mammal consulting scientist, Rachael has extensive experience producing fully robust and quantitative assessments of the potential impact of underwater noise as a result of the offshore activities. This includes quantification of impact for both hearing damage/auditory injury and displacement/behavioural responses. The quantitative noise impact assessments combine the most up to date spatially explicit estimates of density of each species with estimates of the spatial and temporal extent of 'impact footprints' for each noise related impact to provide a quantitative prediction of the number of animals at risk of impact. This considers the best available scientific evidence on the movement and behaviour of marine mammals, both under baseline conditions and in response to underwater noise.
Arup	Joe Nisbet	Onshore EIA Coordinator and Land Use, Agriculture, and Forestry Lead	Joe Nisbet has a BSc Earth Science and an MSc Sustainability and Environment Studies degree. He has over three years of experience in EIA coordination and has been responsible for authoring and contributing to various technical and non-technical aspects of EIA Reports. He is a member of the Institute for Environmental Management and Assessment (IEMA) and sits on their 'Futures Network' steering group. Joe

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			was also the lead author for an article on environmental enhancement published in the 'EIA Review' journal.
Nima	Fiona Nimmo	Commercial Fisheries Lead	Fiona Nimmo has a BEng Chemical Engineering and a BSc Marine Biology degree. Fiona has 15 years' experience and is the Director of the Nima. Her role involves the provision of project direction, project management and technical expertise.
Anatec	Adam Foster	Shipping and Navigation Lead	Adam Foster has a BSc degree. Adam is a Senior Risk Analyst at Anatec with over 10 years of technical experience in offshore marine risk, including within both the oil and gas, and renewables industries. Adam has experience with subsea cables, pipelines, and shipping and navigational aspects of offshore wind farm applications, both pre and post consent. Adam is familiar with the Scottish and English guidance and legislation associated with UK wind farms, and offshore structures in general, and the corresponding required impact assessment methodologies.
Wessex Archaeology	Andrew Bicket	Marine Archaeology and Cultural Heritage Lead	Andrew Bicket has a BSc, MA and PhD degree in Environmental Archaeology, Archaeological Research and Quaternary palaeogeography, respectively. Andrew is an experienced geoarchaeologist and marine archaeology EIA consultant with over 15 years' experience of offshore renewables and archaeological consultancy across Scotland, England, Ireland, northwest and southern Europe.
Wessex Archaeology	Mark Turner	Terrestrial Archaeology and Cultural Heritage Lead	Mark has a BA Archaeology and Prehistory degree. Mark is a full Member of Chartered Institute for Archaeologists. Mark has 30 years' experience within the heritage sector ranging from field archaeology to consultancy, having worked in consultancy over the past 20 years. His project experience is

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			<p>extensive crossing a range of different sectors including, for example, small scale residential development, renewable energy schemes and major infrastructure projects across the United Kingdom. Mark’s particular expertise is in settings assessments and EIA. He has considerable experience in large scale and contentious development, such as renewable energy schemes, having contributed to over 70 submitted onshore and offshore wind projects (the majority in Scotland).</p>
Optimised Environments Limited	Lynda Thomson	Seascape, Landscape and Visual Lead	<p>Lynda Thomson has a Bachelor of Arts (BA) Landscape Architecture degree. Lynda is a Chartered Member of the Landscape Institute. With over 30 years’ experience as a landscape architect, Lynda has worked on onshore wind landscape and visual impact assessment (LVIA) for over 25 years and offshore wind farm Seascape LVIA since 2011.</p>
Cyrrus	Simon McPherson	Military and Civil Aviation Lead	<p>Simon McPherson has a BEng degree. Simon is a Safeguarding Officer with 20 years’ aviation experience in the flight calibration and inspection of radio navigational aids and a broad knowledge of air traffic management. Simon has conducted numerous technical safeguarding assessments on behalf of airports and undertaken feasibility studies on the siting of navigational equipment. He has also provided advice to developers on the effects of proposed building programmes on navigational aids and possible mitigation solutions. Simon has been responsible for all aspects of aviation safeguarding within Cyrrus, including studying the effects of proposed developments on an airport’s operation or assessing the impact of wind farms on radar or aviation in general.</p>
Arup	Craig Latto	Traffic and Transport Lead	<p>Craig Latto has a BEng Civil and Transportation degree. Craig is a Chartered Member and Vice Chair / Board Member (Scotland) of the Chartered Institute of Logistics & Transport</p>

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			<p>and a member of the Chartered Institution of Highways and Transportation. Craig has over 25 years with significant experience in regard to development control and planning processes, in the strategic assessment, master planning, policy review and local development planning. Craig is responsible for the planning, design, and delivery of sustainable transport infrastructure, providing technical expertise in delivering innovative and cost-effective solutions and strategies for the private and public sectors.</p>
BiGGAR Economics Ltd	Simon Cleary	Socioeconomics, Tourism and Recreation Lead	<p>Simon Cleary has a MA Economics and Mathematics degree. Simon is a Member of the Institute of Economic Development. Simon is an economist with 12 years of experience in assessing the economic impact of renewable energy projects and their relationship with the supply chain and other receptors. He has assessed the economic impact of over 100 renewable energy projects and has worked with developers and public sector agencies to identify the opportunities from the development of the wind sector across the UK and Ireland.</p>
GoBe	Nicole Clark	Offshore EIA Coordinator and Other Human Activities Lead	<p>Nicole has a BSc Marine Biology and Oceanography with Bangor University and an MSc Marine Environmental Protection degree. Nicole is currently in a graduate role with GoBe, with just over seven months experience working in the field.</p>

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