

# Appendix 1-1 Statement of Expertise

## Calderdale Energy Park

PEIR Volume 3

PINS Reference: EN0110023

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations  
2009 – Reg 5 (2) (a).

7 April 2026



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APPENDIX 1-1 STATEMENT OF EXPERTISE

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Table A1-1: Statement of Expertise

Aspect	Qualifications	Years of Experience	Description of Competence
EIA Director	BSc (Hons), CEnv, CMIEEM.	25	An environmental consultant and ecologist with more than 25 years' experience, working on more than 75 projects, both in the UK and internationally. They are an expert in providing strategic environmental advice to help clients navigate complex environmental legislation and policy.
EIA Project Manager	BSc (Hons), MIAQM, AMIEnvSc, PIEMA	17	Environmental consultant with more than 16 years' experience overseeing the production of EIA Reports and ES' for a range of developments, including solar, throughout the UK. They led the EIA and environmental work for One Earth Solar Farm DCO.
EIA Project Manager	BSc (Hons), IEMA	18	Environmental consultant with more than 18 years' experience overseeing environment and sustainability assessments, including the production of EIA Reports and ES' for a range of major infrastructure developments, throughout the UK.

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EIA Project Manager	BA (Hons), MA, former member of ISEP National Steering Group.	15	15 years' experience in delivering EIA services across the urban regeneration, commercial / industrial and infrastructure sectors.
GIS Lead	MSc, BSc	11	Experienced in spatial data analysis and environmental mapping. Her work includes analysing 2D and 3D spatial data to support decision-making, managing and visualising large datasets from environmental agencies and land registries, and designing GIS workflows that automate data collection and analysis to standardise processes and reduce costs. She is technically proficient in Python and Arcade, enabling her to streamline and optimise operations.
Biodiversity	BSc (Hons), MSc (Hons)	17	The Biodiversity (Terrestrial Ecology) Lead has over 17 years' experience in ecology, specialising in ornithology, terrestrial ecology and spatial ecology including significant experience of onshore wind in Wales. They have a broad understanding of assessment methods including the delivery of Ecological Impact Assessment (EclA) and Habitat Regulations assessments (HRA). He has experience of large-scale renewable projects including solar, onshore and offshore wind for both

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			DCO and Town and Country Planning applications.
Biodiversity	BSc (Hons)	9	An ecologist with 9 years' experience in both consultancy and local government. He has a broad understanding of assessment methods including the delivery of Biodiversity Net Gain (BNG). He has significant experience in delivering ecological advice to Local Planning Authorities spending 4 years advising on planning policy and wildlife legislation.
Ornithology	Master of Environmental Sciences (Hons) (MEnvSci)  Member of Chartered Institute of Ecology and Environmental Management (MCIEEM)  Chartered Environmentalist (CEnv)	20	Extensive experience in ecological consultancy acting as technical lead and ornithology specialist, with a focus on onshore wind farm projects across the UK and Ireland.
Ornithology	BSc (Hons) Zoology  MSc Species Identification and Survey Skills Qualifying member of Chartered Institute of	4	Experienced ornithological surveyor and project manager. Four years' experience working on onshore wind farm projects including authoring ES chapters.

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	Ecology and Environmental Management (QCIEEM)		
Peat (HRA)	BSc (Natural Sciences) MSc (Geomorphology) PhD (Peat Landslides)	25	25 years' experience in geoscience consultancy. Fellow of the Geological Society of London since 2004. Chartered Geologist since 2006.
Flood Risk	BA (Hons), MCIWEM, C.WEM	17	17 Years' experience in Flood Risk and Drainage. Chartered member of CIWEM.
Flood Risk	BSc (Hons), MCIWEM, C.WEM	7	7 years' experience in the production of Flood Risk Assessments and Drainage Strategies for a variety of projects, including large renewable energy schemes.
Flood Risk	BSc (Hons), Geography and Environmental Science  MSc, Environmental Monitoring, Modelling and Reconstruction	19	19 years' experience in environmental consultancy, with emphasis on hydraulic modelling for site-specific and strategic scale applications.
Hydrology	BSc (Hons), Geophysical Sciences  MSc, Water Resources Systems Engineering	28	28 years' of consulting experience in hydrogeology and water resources. Chartered member of CIWEM and Chartered Scientist since 2008.

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Hydrology	BSc (Hons), Environmental Geoscience  MRes, Science in the Environment	20	20 years of consulting experience in hydrology and geology. Member of CIWEM since 2002, Fellow of Geological Society of London since 2002
Hydrology	BSc Geology  MSc, Water Science and Management,	5	5 years of experience in mapping and visualisation with focus on hydrological assessment
Carbon and Climate Change	MEarthSci, CSci, Member of the Institute of Environmental Sciences (IES), Member of the Institute of Air Quality Management (IAQM)	15+	<p>Helped shape a methodology for the assessment of greenhouse gas (GHG) emissions within EIA to satisfy the requirements of the 2017 EIA Regulations and have produced carbon footprints and GHG assessments for a number of projects including major aviation projects, renewable energy DCOs, as well as EIA residential, commercial and mixed-use developments and industrial facilities.</p> <p>Beyond EIA, they have produced lifecycle carbon assessments for a range of projects, undertaken assessments of project's resilience and adaptation to climate change, developed net zero carbon plans and strategies, and undertaken assessments of carbon sequestration and carbon offsets and</p>

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			carbon assessment for land use, land use change and forestry.
Carbon and Climate Change	MChem (Hons), Associate Member of the IES, Associate Member of the IAQM	7	The author is an expert in GHG and Climate Resilience Assessments for development projects, both standalone, and as a component of Environmental Impact Assessments (EIAs). This includes work on renewable energy DCO applications. They also have broad expertise in corporate carbon footprints, helping companies measure and report their carbon emissions, and develop decarbonisation strategies, with a particular focus on the energy sector.
Landscape and Visual	BA (Hons), FLI	40	Over 40 years LVIA experience throughout the UK.
Cultural Heritage	BA, MCIfA	30	Principal Heritage Consultant with more than 30 years' experience of Historic Environment assessment. Member of ICOMOS UK.
Cultural Heritage	BA, MCIfA	40	Principal Heritage Consultant (EIA Lead) with more than 40 years of historic environment practice with emphasis within renewables sector.
Transport and Access	BEng (Hons), MSc, CEng, FCIHT, CMILT	25	A highly experienced Transport Planner, having worked on wide range of projects across the UK, Ireland and Scandinavia. They specialise in private sector development and renewable energy projects. They have acted as Expert Witness on several Public Inquiries and NSIP hearings. They

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			have worked on over 600 wind farm sites including onshore wind, over 40 solar farms, peak power plants, battery storage sites, biomass plants and grid enhancement projects.
Noise and Vibration	MIOA, PIEMA, BSc (Hons), MSc	17	Principal Consultant and full member of the Institute of Acoustics and has over 17 years of experience in undertaking noise assessments for wind farm developments.
Noise and Vibration	MIOA, BSc (Hons), Dip	12	Principal Consultant and full member of the Institute of Acoustics and has over 12 years of experience in undertaking noise assessments for renewable energy developments, with specific focus on wind farm developments.
Air Quality	BSc. (Hons), MIEnvSc, MIAQM, CSci	25	Technical Director. Over 25 years' experience in preparing and leading air quality assessments and EIA chapters for a range of schemes.
Air Quality	BSc (Hons) MSc MIEnvSc MIAQM	7	Principal Consultant with 7 years' experience of preparing air quality assessments and EIA chapters for numerous projects
Air Quality	MChem (Hons)	1	Assistant Consultant who has contributed to a number of air quality assessments and EIA chapters.
Human Health	MA BA (Hons) PGDip CEnv MISEP PFPH	20	Director for Health and Social Impacts. An international health impact assessment expert, has

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			authored the national practitioner guidance on assessing health in EIA, including competency requirements, and is a member of the World Health Organisation Collaborating Centre on Health in Impact Assessments. Experienced in renewables and energy sector, including DCOs. Expert witness for appeal and examination hearings.
Socio-Economics and Tourism	BA (Hons) Economics, MIED, MEDAS	30	<p>Applied Economist with over 30 years of experience in consultancy.</p> <p>Experience in the energy sector includes socio-economic impact assessments of more than 150 proposed wind farm developments. They have given evidence at more than 25 wind farm hearings and inquiries over the last 20 years.</p>
Socio-Economics and Tourism	BA (Hons) Economics and Politics, MIED, MEDAS	5	<p>Applied Economist with 5 years of experience in consultancy.</p> <p>Cross-sector experience in economic impact and research including more than 20 proposed wind farm developments,</p>
Aviation and Radar	MA (Hons), MSc	29	29 years of assessing effects of wind energy developments on aviation.

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Major Accidents and Disasters	BSc, MSc, PIEMA	7	Senior consultant experienced in completing Major Accident and Disasters assessments for a range of infrastructure projects, drawing on 7 years of experience coordinating and undertaking EIAs.
Shadow Flicker	Cgeog, PhD, MPhil, BSc	3.5	Chartered Geographer with 3.5 years of experience as a renewable energy consultant. He has undertaken multiple shadow flicker assessments, for single turbine and multi-megawatt turbine developments in the UK and Ireland, on projects involving feasibility assessments, complaints investigations, planning condition compliance, and Environmental Impact Assessments (EIA), from the side of turbine developers and property developers.
Shadow Flicker	MIOA, BSc (Hons), Dip	18	Specialist Consultant with 18 years experience in environmental consultancy, with particular expertise in renewable energy and energy storage technologies. Experienced in undertaking shadow flicker assessments for large scale wind developments in the UK and Ireland.
Materials and Waste	LLM International Environmental Law, BSc	24	Director with 24 years of experience in waste, resources and circular economy. Delivered numerous waste strategies for major infrastructure and developments. Experienced in completion of EIA for Materials and Waste for infrastructure projects within the UK.

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Other Environmental Matters (Land Contamination)	BSc, Geology CGeol, Chartered Geologist  FGS, Fellow Geological Society	24	Director with over 23 years experience in environmental assessment and regeneration. Worked with public and private sector clients in a wide variety of EIA projects
Other Environmental Matters (Land Contamination)	PhD, Sustainable Remediation  MSc, Environmental Science  CEnv, Chartered Environmentalist	19	Environmental specialist with 19 years experience in contaminated land management. Including a number of EIA chapters for a number of projects.
EIA Other Matters (Agricultural Land)	HND (Agric), Basis (Arable and Soils), Facts, FRAgS, Nsch	30	Director (30 Years), Agricultural consultant and precision agriculture specialist with extensive experience in digital land assessment, soil mapping, farm management and agri-innovation.

