

Technical Appendix 1.1: Statement of Expertise

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Chapter	Qualification / Expertise of Person(s) Responsible
<p>Chapter 1: Introduction</p> <p>Chapter 2: Approach to the EIA (including Appendix 2.3: Shadow Flicker Assessment)</p> <p>Chapter 3: Site Selection and Design Strategy</p> <p>Chapter 4: Project Description</p> <p>(prepared by LUC with technical inputs from Pell Frischmann, McKay Forestry and WPAC)</p>	<p>Jo Wotton BSc (Hons) MSc MIEMA CEnv is an Associate Director within LUC's Environmental Planning Team and an EIA specialist. Jo has over 15 years of professional EIA experience, specialising in integrated environmental design and EIA of large-scale infrastructure projects, including experience of managing several Section 36 onshore wind farms.</p> <p>Holly Mathewson BSc (Hons) MSc GradIEMA is a Consultant Environmental Planner with a BSc in Environmental Geography and a MSc in Ecological Consultancy. Holly has over 2 years' experience in environmental consultancy and has taken on the role as assistant project manager for a number of Section 36 and Section 37 projects.</p> <p>Technical modelling for the shadow flicker appendix was prepared by Mani Nerwan BSc. Mani has 15 years' experience in producing visualisations and modelling and his expertise covers running shadow flicker models, creation of photomontages, EIA visualisation figure production and reprographic coordination of high specification documents. The reporting undertaken by Holly Mathewson and Jo Wotton.</p> <p>The EIA Report figures and GIS data management was led by Shona Robertson BSc (Hons). Shona specialises in cartographic design and figure production and has extensive experience of preparing the mapping inputs for onshore wind projects.</p> <p>Technical inputs to the forestry appendix were provided by Neil McKay MICFor Director of Neil McKay Forestry Consultant Limited. Neil is a member of the Institute of Chartered Foresters (ICF) since 1994 with more than 35 years' forestry practice in the public and private sectors throughout Scotland. Neil has ten years' experience producing forestry inputs for EIA Reports for renewable energy and energy transmission infrastructure developments across Scotland.</p> <p>The onsite design civil engineering elements to support the EIA Report and application for Section 36 consent were led by Scott McGarva, Technical Director at Pell Frischmann. Scott is a highly experienced Civil Engineer with over 24 years' experience. He is an established project manager and skilled technical specialist. Scott brings has a wealth of knowledge of wind farm site design from initial scheme layouts through to detailed design. He specialises in wind farm site development and detailed design and technical consenting of abnormal load access assessments mitigation measures. .</p> <p>Technical inputs to the aviation lighting design were provided by John Taylor RN (Ret) Managing Director at Wind Power Aviation Consultants (WPAC). John had a career in the Royal Navy specialising in Air Traffic Control (ATC), Airspace Management and Air Defence which culminated in leading both the ATC and Fighter Control Specialisations. In 2008 he founded WPAC Ltd and has since provided aviation advice in relation to over 2,000 wind farm and wind turbine sites, given evidence at a number of planning inquiries and enabled many sites to overcome aviation objections.</p> <p>Technical inputs to the carbon balance assessment were provided by Clare Wharmby MIEMA CEnv. Clare is climate change consultant with over 20 years of experience in the sector. She has worked as a lecturer in EIA at Heriot Watt University and so has thorough knowledge of EIA legislation and policy. She has completed over 30 assessments in the UK using the Scottish Carbon Calculator for wind farms on peat lands and has been actively involved in the recent review of the Carbon Calculator methodology and has input into the development of the Carbon Calculator from a practitioner viewpoint.</p>
<p>Chapter 5: Landscape and Visual Amenity</p> <p>(prepared by LUC)</p>	<p>Sam Oxley BSc (Hons) MA CMLI has over 25 years of experience relating to the assessment/ providing expert witness services in relation to the landscape and visual effects of renewable energy projects.</p> <p>Neil Elliot MA (Hon) CMLI has over 15 years of experience relating to the landscape and visual assessment of renewable energy projects.</p>

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	Preparation of the supporting visualisations was led by Tricia Hardie BSc (Hons) MSc . Tricia has over 15 years of professional experience in preparing high quality 3D visualisations and associated GIS data analysis. She is responsible for the management, production and review of all visualisations produced for the project and ensuring that all are delivered to a high NatureScot complaint standard.
Chapter 6: Geology, Hydrology and Peat (prepared by Kaya Consulting and OWC Ltd)	<p>The hydrology, geology, water resource assessments and peat surveys were undertaken by Kaya Consulting Limited.</p> <p>Dr Sally Stewart BSc MSc PhD MCIWEM C.WEM is the lead author with 23 years consulting experience in hydrology, geomorphology and environmental impact assessment.</p> <p>Dr Andy Mills PhD of OWC Ltd is a chartered geologist with 27+ years experience of mapping and interpreting peatland terrains and peat instability features. Andy provided expert input into the peat assessment, including the Outline Peat Management Plan (PMP) and Peat Landslide Hazard and Risk Assessment (PLHRA).</p>
Chapter 7: Ecology (prepared by Avian)	<p>The ecology assessment has been carried out by Avian Ecology Ltd.</p> <p>The lead author was Mrs Lydia Grubb MSc (Senior Ecologist). Mrs Grubb has over 10 years of experience in ecological consultancy. Over the course of her professional experience, she has contributed to and authored EIA Report and Environmental Statement chapters for numerous onshore wind energy developments throughout the UK.</p> <p>The chapter has been reviewed by Dr Colin Bonnington DPhil MSc BSc (Hons) FBNA FLS MRSB MCIEEM (Principal Ecologist). Dr Bonnington has over 12 years' experience, respectively, in ecological consultancy. During his time, he has authored numerous ecology chapters for EIAs and reports to inform Habitats Regulations Appraisal (HRA) for numerous onshore wind energy developments in Scotland.</p>
Chapter 8: Ornithology (prepared by Avian)	<p>The ornithology assessment has been carried out by Avian Ecology Ltd.</p> <p>The lead author was Mr Graeme Garner BSc (Hons) (Principal Ornithologist). Mr Garner has over 16 years of experience in ecological consultancy. Over the course of his professional experience, he has contributed to, authored and reviewed EIA Report and Environmental Statement chapters and reports to inform Habitats Regulations Appraisal (HRA) for numerous onshore wind energy developments throughout the UK.</p> <p>The chapter has been reviewed by Dr Claudia Garratt PhD, BSc (Hons) (Principal Ecologist) who has over 13 years of ecology consultancy experience, including in the preparation and review of EIA Report chapters and information to inform Appropriate Assessment ('AA') for HRA for ornithological or ecological interest at numerous onshore wind developments, repowers and life extensions.</p>
Chapter 9: Cultural Heritage (prepared by LUC)	<p>Steven Orr MA (Hons) MSc LRTPI FSA (Scot) have over 20 years experience in research, policy development and environmental assessment. As such he is a highly experienced town planner, landscape archaeologist and has led many HEAs for major infrastructure projects and renewable energy developments across the UK. Steven's strong track record in policy and research makes him a trusted adviser to government, agencies and NGOs having served as an expert witness.</p> <p>Amy Farrington McCabe BA (Hons) MA MCIfA Amy has over a decade of experience in renewables environmental assessment, particularly in Scotland. This experience has resulted in a thorough understanding of electricity generation and transmission both within Scotland and throughout the UK. Amy has expert knowledge of the historic environment assessment process with insights from project inception to post-planning advice.</p>
Chapter 10: Noise and Vibration (prepared by TNEI Services Ltd)	<p>TNEI is a specialist energy consultancy with an Acoustics team which has undertaken noise assessments for over 5 GW of onshore wind farms.</p> <p>Alex Dell MEng PhD MIOA is a Senior Consultant and holds a PhD in Mechanical Engineering with 4 years of experience in undertaking operational noise assessments for wind farms. Alex is a full member of the Institute of Acoustics.</p> <p>Gemma Clark BSc MSc PIEMA MIOA is a Principal Consultant and full member of the Institute of Acoustics. Gemma has over 17 years of experience in undertaking noise assessments for wind farm developments.</p>
Chapter 11: Access, Traffic and Transport	The author of this Chapter is Stephen Cochrane BSc (Hons), HND, CMILT, MCIHT , an Associate Director within the Traffic and Transport team at Pell Frischmann. Stephen has over 22 years' experience in the traffic and transportation industry and over 17 years' experience in the

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(prepared by Pell Frischmann)	<p>production of EIA transport chapters (and associated studies) for onshore wind farms and other energy generation and distribution projects in Scotland.</p> <p>The technical reviewer of the traffic and transport assessment is Gordon Buchan BEng (Hons), MSC, CMILT, FCIHT, Sector Director - Energy of Pell Frischmann. Gordon has over 28 years of undertaking the transport assessments associated with new developments and has worked on renewable energy and energy distribution projects across the UK, Ireland and Northern Europe.</p>
Chapter 12: Summary of Significant Effects (prepared by LUC)	The summary chapter was prepared by LUC and overseen by Jo Wotton BSc (Hons) MSc MIEMA CEnv (see above).
Planning Statement (prepared by David Bell Planning)	David C Bell BSc (Hons) Dip UD MCIHT MRTPI is a Chartered Town Planner with over 30 years' experience of planning and development practice in the private sector, advising on a range of developments in the UK and overseas. David is a recognised leading expert in energy planning specialising in onshore wind, solar and battery storage developments. He advises on feasibility studies, planning and Section 36 applications and planning appeals and frequently acts in the capacity of expert witness in Public Inquiries.