

APPENDIX 7.1

RELEVANT EXPERTISE AND QUALIFICATIONS ON COMPETENT EXPERTS

The EIA Regulations require that an ES is prepared by 'competent experts' under Regulation 14 (4)(a). This ES has been prepared by a professional environmental team which comprises technical specialists who have extensive experience in the field of EIA. Table 7A.1 below outlines the relevant expertise and qualifications of competent experts appointed to prepare this ES.

Table 7A.1: Statement of expertise

Name	Role	Company	Qualifications / competencies / experience of author
Climate Change and Greenhouse Gases			
George Vergoulas	Reviewer	Arup	<ul style="list-style-type: none"> Chartered Environmentalist (CEnv) through the Institute of Environmental Sciences and Associate member of IEMA 21 years of experience BSc (Hons) in Environmental Science from the University of Stirling and MSc in Environmental Management and Technology from Oxford Brookes University EIA carbon lead on HS2, Heathrow, Stansted (including acting as Expert Witness) and multiple planning developments Drafted IEMA guidance on how to address carbon in EIA and the planning context
Emma Marsland	Lead author (carbon)	Arup	<ul style="list-style-type: none"> Chartered status/professional membership status: Full Member Institute of Environmental Sciences, Practitioner Member IEMA Qualifications: MSc Environment and Climate Change, BA (Hons) Biology and Communications Years experience: 6 Emma is a Senior EIA and Climate Change Consultant with experience leading on carbon reduction and management for large infrastructure projects and preparing climate change assessments for EIA's on a variety of project types and scales. Emma was a member of the working group for the updated IEMA guidance on addressing carbon in EIA.
Tom Bartle	Reviewer (Climate Change)	Arup	<ul style="list-style-type: none"> Chartered status/professional membership status: Member Institute of Environmental Sciences (MIES), Full Member of Institute of Environmental Management and Assessment (MIEMA), Full Member of institute of Air Quality Management (IAQM) Qualifications: University of Leeds – MRes Atmospheric and Climate Science, University of East Anglia – BSc (Hons) Meteorology and Oceanography Years' experience: 9 Relevant experience: An experienced air quality and climate change consultant with a strong background in climate science and consultancy. Tom has a varied project profile and regularly leads air quality and climate change assessments in support of planning applications and nationally significant infrastructure projects in the UK and overseas.

Name	Role	Company	Qualifications / competencies / experience of author
Climate Change and Greenhouse Gases			
Katie Fawcett	Lead author (Climate Change)	Arup	<ul style="list-style-type: none"> • Chartered status/professional membership status: Associate member Institute of Environmental Sciences, Graduate member of IEMA, Full member of institute of Air Quality Management • Qualifications: MSc Environmental Diagnosis and management, BSc (Hons) Geology • Years' experience: 6 • Relevant experience: An experienced carbon, climate change and air quality consultant with a varied project profile comprising major infrastructure (including DCO) such as National Highways Road schemes and High Speed 2 Phase 2a and 2b, and experience producing EIA and ES chapters for a variety of planning applications.