

Tween Bridge Solar Farm

Environmental Statement

Appendix 4.1: Schedule 4 Requirements of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017, as amended

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

APFP Regulation 5(2)(a)

Document Reference: 6.3.4.1

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4.1 Introduction

- 4.1.1. This document forms Appendix 4.1 of the Environmental Statement (ES) prepared on behalf of the Applicant. The ES presents the findings of the Environmental Impact Assessment (EIA) process for the construction, operation, maintenance and decommissioning of a ground mounted solar park and battery energy storage system (BESS). Once fully operational, the Scheme will export up to 800MW of electricity to the National Electricity Transmission System (NETS) (herein referred to as the 'Scheme').
- 4.1.2. This document provides the locations in which the ES addresses the requirements of Schedule 4 'Information for Inclusion I Environmental Statements' of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017.

Table 4.1 – Schedule 4 of the EIA Regulations 2017: Information for Inclusion in Environmental Statements

Required Information		Location within ES
1. A description of the development, including in particular –	a) a description of the location of the development;	ES Chapter 2 Scheme Description [Document Reference 6.1.2] and, ES Chapter 3 Site Description, Site Selection and Iterative Design Process [Document Reference 6.1.3]
	b) a description of the physical characteristics of the whole development, including, where relevant, requisite demolition works, and the land-use requirements during the construction and operational phases;	ES Chapter 2 Scheme Description [Document Reference 6.1.2] and, ES Chapter 3 Site Description, Site Selection and Iterative Design Process [Document Reference 6.1.3]

Required Information		Location within ES
	c) a description of the main characteristics of the operational phase of the development (in particular any production process), for instance, energy demand and energy used, nature and quantity of the materials and natural resources (including water, land, soil and biodiversity) used;	ES Chapter 2 Scheme Description [Document Reference 6.1.2]
	d) an estimate, by type and quantity, of expected residues and emissions (such as water, air, soil and subsoil pollution, noise, vibration, light, heat, radiation and quantities and types of waste produced during the construction and operation phases	ES Chapter 9 Ground Conditions [Document Reference 6.2.9], ES Chapter 10 Water Resource [Document Reference 6.2.10], ES Chapter 13 Noise and Vibration [Document Reference 6.2.13], ES Chapter 14 Air Quality and Greenhouse Gases [Document Reference 6.2.14],

Required Information		Location within ES
		ES Chapter 15 Agriculture Circumstances [Document Reference 6.2.15], and ES Chapter 16 Other Environmental Topics [Document Reference 6.2.16],
2. A description of the reasonable alternatives (for example in terms of development design, technology, location, size and scale) studied by the developer, which are relevant to the proposed project and its specific characteristics, and an indication of the main reasons for selecting the chosen option, including a comparison of the environmental effects		ES Chapter 3 Site Description, Site Selection and Iterative Design Process [Document Reference 6.1.3]
3. A description of the relevant aspects of the current state of the environment (baseline scenario) and an outline of the likely evolution thereof without implementation of the development as far as natural changes from the baseline scenario can be assessed with reasonable effort on the basis of the availability of environmental information and scientific knowledge.		ES Chapter 3 Site Description, Site Selection and Iterative Design Process [Document Reference 6.1.3], and ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]

Required Information		Location within ES
4. A description of the factors specified in regulation 5(2) likely to be significantly affected by the development: population, human health, biodiversity (for example fauna and flora), land (for example land take), soil (for example organic matter, erosion, compaction, sealing), water (for example hydromorphological changes, quantity and quality), air, climate (for example greenhouse gas emissions, impacts relevant to adaptation), material assets, cultural heritage, including architectural and archaeological aspects, and landscape.		ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]
5. A description of the likely significant effects of the development on the environment resulting from, inter alia—	a) the construction and existence of the development, including, where relevant, demolition works;	ES Chapter 2 Scheme Description [Document Reference 6.1.2]
	b) the use of natural resources, in particular land, soil, water and biodiversity, considering as far as possible the sustainable availability of these resources;	ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]

Required Information		Location within ES
	c) the emission of pollutants, noise, vibration, light, heat and radiation, the creation of nuisances, and the disposal and recovery of waste;	ES Chapter 13 Noise and Vibration [Document Reference 6.2.13], ES Chapter 14 Air Quality and Greenhouse Gases [Document Reference 6.2.14], and ES Chapter 16 Other Environmental Topics [Document Reference 6.2.16],
	d) the risks to human health, cultural heritage or the environment (for example due to accidents or disasters);	ES Chapter 8 Cultural Heritage and Archaeology [Document Reference 6.2.8], ES Chapter 6 Landscape and Visual Impact [Document Reference 6.2.6], ES Chapter 11 Socio Economics [Document Reference 6.2.11],

Required Information		Location within ES
		<p>ES Chapter 13 Noise and Vibration [Document Reference 6.2.13],</p> <p>ES Chapter 14 Air Quality and Greenhouse Gases [Document Reference 6.2.14], and</p> <p>ES Chapter 16 Other Environmental Topics [Document Reference 6.2.16],</p>
	e) the cumulation of effects with other existing and/or approved projects, taking into account any existing environmental problems relating to areas of particular environmental importance likely to be affected or the use of natural resources;	ES Chapter 17 Cumulative Impacts [Document Reference 6.2.17]

Required Information		Location within ES
	f) the impact of the project on climate (for example the nature and magnitude of greenhouse gas emissions) and the vulnerability of the project to climate change;	ES Chapter 10 Water Resource [Document Reference 6.2.10], ES Chapter 14 Air Quality and Greenhouse Gases [Document Reference 6.2.14], and ES Chapter 16 Other Environmental Topics [Document Reference 6.2.16],
	g) the technologies and the substances used.	ES Chapter 2 Scheme Description [Document Reference 6.1.2], and ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]
	The description of the likely significant effects on the factors specified in regulation 5(2) should cover the direct effects and any	ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]

Required Information		Location within ES
	indirect, secondary, cumulative, transboundary, short-term, medium-term and long-term, permanent and temporary, positive and negative effects of the development. This description should take into account the environmental protection objectives established at Union or Member State level which are relevant to the project, including in particular those established under Council Directive 92/43/EEC(a) and Directive 2009/147/EC(b).	
6. A description of the forecasting methods or evidence, used to identify and assess the significant effects on the environment, including details of difficulties (for example technical deficiencies or lack of knowledge) encountered compiling the required information and the main uncertainties involved.		ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]
7. A description of the measures envisaged to avoid, prevent, reduce or, if possible, offset any identified significant adverse effects on the environment and, where appropriate, of any proposed monitoring arrangements (for example the preparation of a post-project analysis).		ES Chapters 6 – 17 [Document Reference 6.2.6–6.2.17]

Required Information	Location within ES
That description should explain the extent, to which significant adverse effects on the environment are avoided, prevented, reduced or offset, and should cover both the construction and operational phases.	
8. A description of the expected significant adverse effects of the development on the environment deriving from the vulnerability of the development to risks of major accidents and/or disasters which are relevant to the project concerned. Relevant information available and obtained through risk assessments pursuant to EU legislation such as Directive 2012/18/EU of the European Parliament and of the Council(c) or Council Directive 2009/71/Euratom(d) or UK environmental assessments may be used for this purpose provided that the requirements of this Directive are met. Where appropriate, this description should include measures envisaged to prevent or mitigate the significant adverse effects of such events on the environment and details of the preparedness for and proposed response to such emergencies.	ES Chapter 16 Other Environmental Topics [Document Reference 6.2.16]
9. A non-technical summary of the information provided under paragraphs 1 to 8.	ES Appendix 1.0 Non-Technical Summary [Document Reference 6.3.1.0]
10. A reference list detailing the sources used for the descriptions and assessments included in the environmental statement.	ES Chapters 1 – 18 [Document Reference 6.2.1–6.2.18]

