



# Botley West Solar Farm

Environmental Statement

**Volume 1**

**Chapter 21: Summary of Significant Effects**

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## Approval for issue

Christopher Lecointe

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## Glossary

Term	Meaning
The Applicant	SolarFive Ltd
The Project	The Botley West Solar Farm
The Site or Order Limits	The area of land encompassing the Project development and shown on the Site Location and Order Limits Overview (Volume 2, Figure 1.1 of the ES).

## Abbreviations

Abbreviation	Meaning
EIA	Environmental Impact Assessment
ES	Environmental Statement
IEMA	Institute of Environmental Management and Assessment

## 21 Summary of Significant Effects

### 21.1 Introduction

21.1.1 This chapter provides a summary of the likely significant effects (adverse and beneficial) of the Project based on the preliminary findings of the Environmental Impact Assessment (EIA) process undertaken to date. Whilst this chapter sets out only the likely significant effects and cumulative significant effects in EIA terms, the detailed assessments are provided in the individual topic chapters (Chapters 7 to 20) of this Environmental Statement (ES). The assessment methodology is set out in Chapter 4: Approach to Environmental Assessment [EN010147/APP/6.3].

21.1.2 The ES has been undertaken in parallel with the design process and development of the embedded and additional mitigation identified within Chapters 7-20 of the ES [EN010147/APP/6.3]. A number of measures have been embedded within the design of the Project to mitigate potential adverse environmental effects. Where required, further mitigation measures are identified within topic chapters. These are measures that could further prevent, reduce and, where possible, offset adverse effects on the environment.

21.1.3 Residual effects are defined as those effects that remain following the implementation of mitigation measures (embedded mitigation and where applicable additional mitigation).

### 21.2 Summary of Significant Effects

21.2.1 A summary of the identified significant residual effects (adverse and beneficial) post mitigation for each topic is presented in **Table 21.1**.

21.2.2 The conclusions are based on information available at the time of preparing the ES.

**Table 21.1: Significant residual effects during the construction, operation and decommissioning phase of the Project**

Description of resource/receptor and effect	Phase <sup>a</sup>			Magnitude of impact	Sensitivity of the receptor	Residual effect
	C	O	D			
<b>Historic Environment [EN010147/APP/6.3]</b>						
No significant residual effects on Historic Environment are predicted during construction, operation and decommissioning of the Project.						
No significant cumulative residual effects on Historic Environment are predicted during construction, operation and decommissioning of the Project.						
<b>Landscape and Visual Resources [EN010147/APP/6.3]</b>						
Significant visual effects at winter Year 1 during operation and maintenance from views available at Representative Viewpoints 5b, 5c, 13, 17, 25, 26, 32, 33, 38, 39, 50 and 54. By Year 15 these effects would <b>not</b> be significant.						
There would be significant effects on users of public rights of way within or immediately adjacent to the Project during operation and maintenance, at completion. By Year 15, once planting matures, these effects would <b>not</b> be significant.						
<b>Ecology and Nature Conservation [EN010147/APP/6.3]</b>						
The impact of temporary and permanent habitat loss on wintering birds during construction of the Project.	✓			Wintering bird assemblage Medium	Wintering bird assemblage Medium	Wintering bird assemblage Moderate adverse
The impact of habitat creation during construction of the Project	✓			Nationally designated sites Low	Nationally designated sites Very high	Nationally designated sites Moderate beneficial
				Locally designated sites Low	Locally designated sites Very high	Locally designated sites Moderate beneficial
				Ancient woodland Low	Ancient woodland Very high	Ancient woodland Moderate beneficial

Description of resource/receptor and effect	Phase <sup>a</sup>			Magnitude of impact	Sensitivity of the receptor	Residual effect
	C	O	D			
				Floodplain Meadow HPI M	Floodplain Meadow HPI M	Floodplain Meadow HPI Moderate beneficial
				Hedgerows HPI Medium	Hedgerows HPI Medium	Hedgerows HPI Moderate beneficial
				Important Hedgerows Medium	Important Hedgerows Medium	Important Hedgerows Moderate beneficial
				Waterbodies HPI Low	Waterbodies HPI High	Waterbodies HPI Moderate beneficial
				Breeding bird assemblage Medium	Breeding bird assemblage Medium	Breeding bird assemblage Moderate beneficial
				Great crested newt Medium	Great crested newt Medium	Great crested newt Moderate beneficial
				Bat species assemblage Medium	Bat species assemblage Very High	Bat species assemblage Moderate beneficial
				Dormice Medium	Dormice Medium	Dormice Moderate beneficial

Description of resource/receptor and effect	Phase <sup>a</sup>			Magnitude of impact	Sensitivity of the receptor	Residual effect
	C	O	D			
				Reptiles Medium	Reptiles Medium	Reptiles Moderate beneficial
No significant cumulative residual effects on Ecology and Nature Conservation are predicted during construction, operation and decommissioning of the Project.						
<b>Hydrology and Flood Risk [EN010147/APP/6.3]</b>						
No significant residual effects on Hydrology and Flood Risk are predicted during construction, operation and decommissioning of the Project.						
No significant cumulative residual effects on Hydrology and Flood Risk are predicted during construction, operation and decommissioning of the Project.						
<b>Ground Conditions [EN010147/APP/6.3]</b>						
No significant residual effects on Ground Conditions are predicted during construction, operation and decommissioning of the Project.						
No significant cumulative residual effects on Ground Conditions are predicted during construction, operation and decommissioning of the Project.						
<b>Traffic and Transport [EN010147/APP/6.3]</b>						
No significant residual effects on Traffic and Transport are predicted during construction, operation and decommissioning of the Project.						
No significant cumulative residual effects on Traffic and Transport are predicted during construction, operation and decommissioning of the Project.						
<b>Noise and Vibration [EN010147/APP/6.3]</b>						
No significant residual effects on Noise and Vibration are predicted during construction, operation and decommissioning of the Project.						
No significant cumulative residual effects on Noise and Vibration are predicted during construction, operation and decommissioning of the Project.						
<b>Climate Change [EN010147/APP/6.3]</b>						
The impact of Greenhouse Gas emissions arising from the Project lifetime	✓	✓	✓	-6,543,747 tCO <sub>2</sub> e (avoided emissions)	High	Beneficial effect (Significant)
No significant cumulative residual effects on Climate Change are predicted during construction, operation and decommissioning of the Project.						
<b>Socio Economics [EN010147/APP/6.3]</b>						



Description of resource/receptor and effect	Phase <sup>a</sup>			Magnitude of impact	Sensitivity of the receptor	Residual effect
	C	O	D			
The impact of employment generation on unemployment rates in the Study Area.	✓	✓	✓	C: Medium O: Low D: Low	C: Medium O: Medium D: Medium	Minor beneficial (Significant)

No significant cumulative residual effects on Socio Economics are predicted during construction, operation and decommissioning of the Project.

### Human Health [EN010147/APP/6.3]

Open space, leisure and play		✓		O: Low	O: High	Moderate beneficial (Significant)
Education and training	✓	✓	✓	C: Medium O: Medium D: Medium	C: High O: High D: High	Moderate beneficial (Significant)
Employment and income	✓	✓	✓	C: Medium O: Medium D: Medium	C: High O: High D: High	Moderate beneficial (Significant)
Wider societal infrastructure and resources	✓			Medium	High	Moderate beneficial (Significant)

No significant cumulative residual effects on Human Health are predicted during construction, operation and decommissioning of the Project.

### Agricultural Land Use and Public Rights of Way [EN010147/APP/6.3]

No significant residual effects on Agricultural Land Use and Public Rights of Way are predicted during construction, operation and decommissioning of the Project.

Cumulative effects: The permanent loss of agricultural land, including BMV land and land from landholdings	✓			C: High	C: Very high	C: Major adverse
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### Waste and Resources [EN010147/APP/6.3]

No significant residual effects on Waste and Resources are predicted during construction, operation and decommissioning of the Project.

No significant cumulative residual effects on Waste and Resources are predicted during construction, operation and decommissioning of the Project.

Description of resource/receptor and effect	Phase <sup>a</sup>			Magnitude of impact	Sensitivity of the receptor	Residual effect
	C	O	D			

**Air Quality [EN010147/APP/6.3]**

No significant residual effects on Air Quality are predicted during construction, operation and decommissioning of the Project.

No significant cumulative residual effects on Air Quality are predicted during construction, operation and decommissioning of the Project.

a C=construction, O=operation and maintenance, D=decommissioning

## 21.3 References

Institute of Environmental Management and Assessment (IEMA) (2017) The Environmental Impact Assessment Guide to: Assessing Greenhouse Gas Emissions and Evaluating their Significance.