



EAST PARK ENERGY

East Park Energy

EN010141

**Environmental Statement
Volume 1 – Main Report**

Chapter 18: Summary of Effects

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EAST PARK ENERGY

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Forms and Procedure) Regulations 2009

Environmental Statement Volume 1 – Main Report

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18.0 SUMMARY OF EFFECTS

18.1 Introduction

18.1.1 This chapter of the Environmental Statement (ES) provides a summary of the likely significant residual effects of the Scheme, based on the assessments undertaken as part of this ES. The summary of effects covers the construction, operational and decommissioning phases of the Scheme as appropriate and is provided in Section 18.2.

18.2 Summary of Likely Significant Effects

Table 18.1: Construction Phase – Residual Likely Significant Effects

Receptor	Sensitivity of Receptor	Magnitude of Impact	Residual Effect
ES Volume 1 Chapter 5: Landscape and Visual Impact Assessment			
Landscape Receptors			
LCA 1B Riseley Clay Farmland Medium	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Southern Wolds LCA	Low to Medium	Medium to High	Moderate to Major Adverse (Significant)
Representative Viewpoints			
Viewpoint 7 - Footpath A3 (Parish of Swineshead)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 8 - Bridleway 1 (Parish of Bolnhurst and Keysoe)	Medium to High	High	Major Adverse (Significant)
Viewpoint 9 - Bridleway 37 (Parish of Bolnhurst and Keysoe)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 12 - Footpath 34 (Parish of Bolnhurst and Keysoe)	Medium to High	High	Major Adverse (Significant)

Viewpoint 13 - Bridleway 40 (Parish of Bolnhurst and Keysoe)	Medium to High	High	Major Adverse (Significant)
Viewpoint 14 - Bridleway 37 (Parish of Bolnhurst and Keysoe)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 15 - Footpath 29 (Parish of Pertenhall)	Medium to High	High	Major Adverse (Significant)
Viewpoint 16 - Footpath 11 (Parish of Pertenhall) at the Chadwell Spring	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 21 - Footpath 5 (Parish of Pertenhall)	Medium to High	Medium	Moderate to Major Adverse (Significant)
Viewpoint 23 - Footpath 20 (Parish of Pertenhall)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 24 - Great Staughton Road	High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 25 - Footpath 26 (Parish of Little Staughton)	Medium	High	Major Adverse (Significant)
Viewpoint 27 - Footpath 112 (Parish of Bolnhurst and Keysoe)	Medium	High	Major Adverse (Significant)
Viewpoint 32 - Footpath 47 (Parish of Bolnhurst and Keysoe)	Medium to High	High	Major Adverse (Significant)

Viewpoint 33 - Footpath 13 (Parish of Bolnhurst and Keysoe)	Medium	High	Major Adverse (Significant)
Viewpoint 35 - Footpath 4 (Parish of Little Staughton)	Medium	High	Major Adverse (Significant)
Viewpoint 36 - Footpath 10 (Parish of Little Staughton)	Medium to High	High	Major Adverse (Significant)
Viewpoint 37 - Footpath 3 (Parish of Little Staughton)	Medium to High	High	Major Adverse (Significant)
Viewpoint 38 - Footpath 11 (Parish of Little Staughton)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 42 - Footpath 4 (Parish of Little Staughton)	Medium	High	Major Adverse (Significant)
Viewpoint 43 - Footpath 11 (Parish of Little Staughton)	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 46 - The Kangaroo at the junction between Little Staughton Road and Great Staughton Road	High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 48 - Footpath 1 (Parish of Little Staughton)	Medium	Medium	Moderate to Major Adverse (Significant)
Viewpoint 49 - Footpath 1 (Parish of Little Staughton)	Medium	High	Major Adverse (Significant)

Viewpoint 50 – Footpath 1 (Parish of Little Staughton)	Medium	High	Major Adverse (Significant)
Viewpoint 51 - Footpath 5 (Parish of Little Staughton)	Medium to High	High	Major Adverse (Significant)
Viewpoint 54 - Footpath 213/1 (Parish of Great Staughton), adjacent to Scheduled Monument	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 56 - Footpath 213/2 (Parish of Great Staughton)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 60 - Footpath 213/2 (Parish of Great Staughton)	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 68 - Bridleway 112/7 (Parish of Hail Weston)	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 71 - Footpath 112/5 (Parish of Hail Weston)	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 77 - Bridleway 112/7 (Parish of Hail Weston)	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 78 - Footpath 112/5 (Parish of Hail Weston)	Medium	Medium to High	Moderate to Major Adverse (Significant)
Viewpoint 83 – Footpath 213/28 beside the River Kym (Parish of Great Staughton)	Medium to High	Medium to High	Moderate to Major Adverse (Significant)

ES Volume 1 Chapter 6: Cultural Heritage and Archaeology			
Temporary effect on the setting of Designated Asset: <i>Old Manor House, Cretingsbury: a motte castle and moated manor house Scheduled Monument (Asset 4)</i>	High	Medium	Moderate Adverse (Significant)
Temporary effect on the setting of Designated Asset: <i>The Roman small town south of Great Staughton Scheduled Monument (Asset 991)</i>	Medium	Medium	Moderate Adverse (Significant)
Temporary effect on the setting of Designated Asset: <i>Grade I listed Church of All Saints (Asset 38)</i>	High	Medium	Moderate Adverse (Significant)
Temporary effect on the setting of Non-Designated Asset: <i>Possible moated site in northwestern corner of Site D (Asset 407)</i>	Medium	Medium	Moderate Adverse (Significant)
Direct Effects on Non-Designated Assets identified within Areas of Archaeological Constraint (AAC-A-2b, AAC-A-3b, AAC-A-5b, AAC-A-6b, AAC-B-1b, AAC-B-2b, AAC-B-5b, AAC-B-6b, AAC-B-10b, AAC-C-5, AAC-D-3b and AAC-D-4b)	Medium	Medium	Moderate Adverse (Significant – offset by proposed additional mitigation)
ES Volume 1 Chapter 7: Ecology and Nature Conservation			
No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 8: Hydrology and Flood Risk			

No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 9: Traffic and Transport			
No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 10: Noise and Vibration			
No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 11: Air Quality			
No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 12: Ground Conditions			
No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 13: Land and Soils			
Grade 2 (and Ungraded) Agricultural Land	Very High	Low	Moderate Adverse (Significant)
ES Volume 1 Chapter 14: Socio Economics, Land and Tourism			
Economy (Local)	Medium	Medium	Moderate Beneficial (Significant)
ES Volume 1 Chapter 15: Climate Change			
No significant residual effects are predicted during the construction phase.			
ES Volume 1 Chapter 16: Other Environmental Topics			

No significant residual effects are predicted during the construction phase.

ES Volume 1 Chapter 17: Cumulative and In-Combination Effects

~~No~~ During the construction phase, no new or additional significant residual cumulative effects resulting from the interaction of the Scheme with other projects have been identified, over and above the significant effects already identified in the assessment of the Scheme in isolation ~~are predicted during the construction phase.~~

Table 18.2: Operational Phase – Residual Likely Significant Effects

Receptor	Sensitivity of Receptor	Magnitude of Impact	Residual Effect
<i>ES Volume 1 Chapter 5: Landscape and Visual Impact Assessment</i>			
LCA 1B Riseley Clay Farmland Medium	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Moderate Adverse (Not Significant)
<i>Representative Viewpoints</i>			
Viewpoint 7 – Footpath A3 (Parish of Swineshead)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 8 – Bridleway 1 (Parish of Bolnhurst and Keysoe)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse (Significant)
Viewpoint 9 – Bridleway 37 (Parish of Bolnhurst and Keysoe)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse

			(Not Significant)
Viewpoint 12 - Footpath 34 (Parish of Bolnhurst and Keysoe)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 13 – Bridleway 40 (Parish of Bolnhurst and Keysoe)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 16 – Footpath 11 (Parish of Pertenhall) at the Chadwell Spring	Medium	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Minor to Moderate Adverse (Not Significant)
Viewpoint 21 - Footpath 5 (Parish of Pertenhall)	Medium to High	Y0: Medium	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate to Major Adverse (Significant)
Viewpoint 23 - Footpath 20 (Parish of Pertenhall)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse

			(Significant)
Viewpoint 24 – Great Staughton Road	High	Y0: Medium	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 25 - Footpath 26 (Parish of Little Staughton)	Medium	Y0: High	Y0: Major Adverse (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse (Significant)
Viewpoint 27 – Footpath 112 (Parish of Bolnhurst and Keysoe)	Medium	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Minor to Moderate Adverse (Not Significant)
Viewpoint 32 – Footpath 47 (Parish of Bolnhurst and Keysoe)	Medium to High	Y0: High	Y0: Major Adverse (Significant)
		Y10: Medium	Y10: Moderate to Major Adverse (Significant)
Viewpoint 33 – Footpath 13 (Parish of Bolnhurst and Keysoe)	Medium	Y0: High	Y0: Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse

			(Not Significant)
Viewpoint 35 – Footpath 4 (Parish of Little Staughton)	Medium	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 36 - Footpath 10 (Parish of Little Staughton)	Medium to High	Y0: High	Y0: Major Adverse (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse (Significant)
Viewpoint 37 – Footpath 3 (Parish of Little Staughton)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 42 – Footpath 4 (Parish of Little Staughton)	Medium	Y0: Medium to High	Y0: Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 48 – Footpath 1 (Parish of Little Staughton)	Medium	Y0: Medium	Y0: Moderate to Major Adverse (Significant)
		Y10: Low	Y10: Minor Adverse

			(Not Significant)
Viewpoint 49 – Footpath 1 (Parish of Little Staughton)	Medium	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 50 – Footpath 1 (Parish of Little Staughton)	Medium	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Moderate Adverse (Not Significant)
Viewpoint 51 - Footpath 5 (Parish of Little Staughton)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse (Significant)
Viewpoint 54 - Footpath 213/1 (Parish of Great Staughton), adjacent to Scheduled Monument	Medium to High	Y0: Medium	Y0: Moderate to Major (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse (Significant)
Viewpoint 56 - Footpath 213/2 (Parish of Great Staughton)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium to High	Y10: Moderate to Major Adverse

			(Significant)
Viewpoint 60: Footpath 213/2 (Parish of Great Staughton)	Medium	Y0: Medium	Y0: Moderate to Major Adverse (Significant)
		Y10: Low to Medium	Y10: Minor to Moderate Adverse (Not Significant)
Viewpoint 83 – Footpath 213/28 Beside the River Kym (Parish of Great Staughton)	Medium to High	Y0: Medium to High	Y0: Moderate to Major Adverse (Significant)
		Y10: Medium	Y10: Moderate Adverse (Not Significant)
ES Volume 1 Chapter 6: Cultural Heritage and Archaeology			
Non-Designated Asset: Possible moated site in northwestern corner of Site D (Asset 407)	Medium	Medium	Moderate Adverse (Significant)
ES Volume 1 Chapter 7: Ecology and Nature Conservation			
Priority and Irreplaceable Habitats	Medium	Moderate	Moderate Beneficial (Significant)
Breeding Bird Assemblage	Medium	Moderate	Moderate Beneficial (Significant)
Foraging and Commuting Bats	Medium	Moderate	Moderate Beneficial (Significant)

ES Volume 1 Chapter 8: Hydrology and Flood Risk			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 9: Traffic and Transport			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 10: Noise and Vibration			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 11: Air Quality			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 12: Ground Conditions			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 13: Land and Soils			
Soil Type 1	Medium	High	Moderate Beneficial (Significant)
Soil Type 2	Medium	High	Moderate Beneficial (Significant)
Soil Type 3	Medium to Low	High	Moderate Beneficial (Significant)
Soil Type 4	Medium	High	Moderate Beneficial

			(Significant)
ES Volume 1 Chapter 14: Socio Economics, Land and Tourism			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 15: Climate Change			
Atmospheric Greenhouse Gas Emissions	-	-	Beneficial (Significant)
ES Volume 1 Chapter 16: Other Environmental Topics			
No significant residual effects are predicted during the operational phase.			
ES Volume 1 Chapter 17: Cumulative and In-Combination Effects			
<p><u>During the operational phase, no new or additional significant residual cumulative effects resulting from the interaction of the Scheme with other projects have been identified, over and above the significant effects already identified in the assessment of the Scheme in isolation</u> are predicted during the operational phase.</p>			

Table 18.3: Decommissioning Phase – Residual Likely Significant Effects

Receptor	Sensitivity of Receptor	Magnitude of Impact	Residual Effect
<i>ES Volume 1 Chapter 5: Landscape and Visual Impact Assessment</i>			
Residual effects at the decommissioning phase would be comparable to those as reported for the construction phase.			
<i>ES Volume 1 Chapter 6: Cultural Heritage and Archaeology</i>			
No significant residual effects are predicted during the decommissioning phase.			
<i>ES Volume 1 Chapter 7: Ecology and Nature Conservation</i>			
No significant residual effects are predicted during the decommissioning phase.			
<i>ES Volume 1 Chapter 8: Hydrology and Flood Risk</i>			
No significant residual effects are predicted during the decommissioning phase.			
<i>ES Volume 1 Chapter 9: Traffic and Transport</i>			
No significant residual effects are predicted during the decommissioning phase.			
<i>ES Volume 1 Chapter 10: Noise and Vibration</i>			
No significant residual effects are predicted during the decommissioning phase.			
<i>ES Volume 1 Chapter 11: Air Quality</i>			
No significant residual effects are predicted during the decommissioning phase.			
<i>ES Volume 1 Chapter 12: Ground Conditions</i>			

No significant residual effects are predicted during the decommissioning phase.

ES Volume 1 Chapter 13: Land and Soils

No significant residual effects are predicted during the decommissioning phase.

ES Volume 1 Chapter 14: Socio Economics, Land and Tourism

Residual effects at the decommissioning phase would be comparable to those as reported for the construction phase.

ES Volume 1 Chapter 15: Climate Change

No significant residual effects are predicted during the decommissioning phase.

ES Volume 1 Chapter 16: Other Environmental Topics

No significant residual effects are predicted during the decommissioning phase.

ES Volume 1 Chapter 17: Cumulative and In-Combination Effects

During the decommissioning phase, no new or additional significant residual cumulative effects resulting from the interaction of the Scheme with other projects have been identified, over and above the significant effects already identified in the assessment of the Scheme in isolation. ~~No significant residual cumulative effects are predicted during the decommissioning phase.~~

