

Gate Burton Energy Park Environmental Statement

Volume 3, Appendix 16-B: Effect Interaction Matrix
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APFP Regulation 5(2)(a)
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Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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1. Introduction

1.1 Purpose of this appendix

- 1.1.1 This appendix presents the potential interactions of residual effects on receptors identified within **Chapters 6 to 15** of the Environmental Statement (ES) [EN010131/APP/3.1].
- 1.1.2 This Appendix supports the effect interactions assessment within **Chapter 16** of the ES [EN010131/APP/3.1]. Effect interactions are where a single receptor is affected by multiple aspects of a project, potentially worsening the effect. These are also known as intra-project cumulative effects.
- 1.1.3 Cumulative effects are assessed and concluded within each of **Chapters 6 to 15** and the results are summarised in Chapter 16 of the ES [EN010131/APP/3.1].

1.2 Effect Interactions

- 1.2.1 Table 1-1 and Table 1-2 present the effect interactions for each of the receptors identified to have potential effects of minor to major magnitude in each of the chapters of the ES during construction or and decommissioning. No interactions were found during operation. Only those receptors that have more than one effect greater than negligible in magnitude identified are included in the tables below.
 - The following symbols and letters are used within the tables:
 - Not applicable: Blank cell
 - Minor, moderate, major adverse effect: -/--/---
 - Minor, moderate, major beneficial effect: +/+/+++
 - Yes: Y
 - No: N

Table 1-1 Potential effect interactions during construction

Receptor	Climate Change	Cultural Heritage	Ecology	Water Environment	Landscape & Visual	Noise & Vibration	Socioeconomics & Land Use	Transport & Access	Air Quality	Glint & Glare	Ground Conditions	Human Health	Major Accidents & Disasters	Telecommunications	Waste	Potential for Effect Interactions (Y/N)
Chapter 10 – Landscape and Visual Amenity receptors																
Vehicle users, Outdoor workers / Farmers, Recreational users at Viewpoint 8 (View northwest from Marton Road)					∴	-										Y
Recreational users, Vehicle users, Residents at Viewpoint 9 (View west from Marton Road, Willingham by Stow)					∴	-										Y
Vehicle users, Residents at Viewpoint 10-1 (View northwest from B1241 (Kexby Lane))					∴			-								Y
Vehicle users, Residents at Viewpoint 10-2 (View west from B1241 (Kexby Lane))					∴			-								Y
Pedestrians, Vehicle users, Residents at Viewpoint 11 (View east from B1241 (Kexby Lane) at eastern entry to Knaith Park)					-			-								Y
Vehicle users, Recreational users at Viewpoint 22 (View west from Cottam Road /					∴		-	-				-				Y

Receptor	Climate Change	Cultural Heritage	Ecology	Water Environment	Landscape & Visual	Noise & Vibration	Socioeconomics & Land Use	Transport & Access	Air Quality	Glint & Glare	Ground Conditions	Human Health	Major Accidents & Disasters	Telecommunications	Waste	Potential for Effect Interactions (Y/N)	
Outgang Lane along Grid Connection Corridor)																	
Chapter 11 – Noise and Vibration																	
Residential Receptor Marton Road					::	-											Y
Chapter 12 – Socio-economics and Land Use receptors																	
Users of PRoW T SouthLeverton BOAT16					::	-	-					-					Y
Local economy – Employment generation							+					+					Y
Chapter 13 – Transport and Access receptors																	
Road Link Receptor - Kexby Lane					::			-									Y
Users of PRoW T SouthLeverton BOAT16					::	-	-					-					Y

Receptor	Climate Change	Cultural Heritage	Ecology	Water Environment	Landscape & Visual	Noise & Vibration	Socioeconomics & Land Use	Transport & Access	Air Quality	Glint & Glare	Ground Conditions	Human Health	Major Accidents & Disasters	Telecommunications	Waste	Potential for Effect Interactions (Y/N)
Chapter 14 – Human Health receptors																
Users of PRow T SouthLeverton BOAT16					:		-	-				-				Y
Local economy – Employment generation							+					+				Y

Table 1-2 Potential effect interactions during decommissioning

Receptor	Climate Change	Cultural Heritage	Ecology	Water Environment	Landscape & Visual	Noise & Vibration	Socioeconomics & Land Use	Transport & Access	Air Quality	Glint & Glare	Ground Conditions	Human Health	Major Accidents & Disasters	Telecommunications	Waste	Potential for Effect Interactions (Y/N)
Chapter 10 – Landscape and Visual Amenity receptors																
Vehicle users, Outdoor workers / Farmers, Recreational users at Viewpoint 8 (View northwest from Marton Road)					∴	-										Y
Recreational users, Vehicle users, Residents at Viewpoint 9 (View west from Marton Road, Willingham by Stow)					∴	-										Y
Chapter 11 – Noise and Vibration																
Residential Receptor Marton Road					∴	-										Y
Chapter 12 – Socio-economics and Land Use receptors																
Users of PRoW T SouthLeverton BOAT16							-	-					-			Y
Chapter 13 – Transport and Access receptors																

Receptor	Climate Change	Cultural Heritage	Ecology	Water Environment	Landscape & Visual	Noise & Vibration	Socioeconomics & Land Use	Transport & Access	Air Quality	Glint & Glare	Ground Conditions	Human Health	Major Accidents & Disasters	Telecommunications	Waste	Potential for Effect Interactions (Y/N)
Users of PRoW T SouthLeverton BOAT16							-	-				-				Y
Chapter 14 – Human Health receptors																
Users of PRoW T SouthLeverton BOAT16							-	-				-				Y
Local economy – Employment generation							+					+				Y