Meridian Solar Farm

EN010169

Volume 6

Environmental Statement

6.1 ES Chapter 18: Summary of Likely Significant Effects (Rev 1) (Clean)

APFP Regulation 5(2)(a)

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

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Table of Contents

18. Summary of Likely Significant Environmental Effects 1

18.1. Introduction 1
18.2. Summary of Likely Significant Effects 1

Tables

Table 18-1: Significant Residual Effects during the Construction Phase 3
Table 18-2: Significant Residual Effects during the Operational Phase..... 14
Table 18-3: Significant Residual Effects during the Decommissioning Phase..... 28

18. Summary of Likely Significant Environmental Effects

18.1. Introduction

18.1.1. This chapter of the Environmental Statement (ES) summarises the likely significant residual effects of the Meridian Solar Farm Project (hereafter referred to as 'the Scheme'). Residual effects are defined as those effects that remain following the implementation of mitigation measures. Residual effects and mitigation measures are discussed in full in the relevant technical chapters (**ES Chapters 5 to 17** (Doc Ref. 6.1)).

18.1.2. Each technical chapter contains detailed consideration of both the beneficial and adverse effects identified as likely to arise from the Scheme. The criteria applied to define the significance of effects are defined within **ES Chapter 4: Overview of the EIA Process** (Doc Ref. 6.1), with further detail provided within the individual technical chapters. Where technical chapters have deviated from this standard methodology, this is explained in the respective chapters and justification for the reason provided (for example to align with industry-standard guidance for that discipline).

18.1.3. The Environmental Impact Assessment (EIA) for the Scheme has been undertaken in parallel with the design process and development of the embedded and additional mitigation identified within **ES Chapters 5-17** (Doc Ref. 6.1). Several measures have been embedded within the design of the Scheme to reduce adverse environmental effects, such as implementing buffer areas from sensitive environmental and heritage receptors and adopting landscape design to create habitat and screen views of the Scheme.

18.1.4. The likely significant residual effects listed within the technical chapters (**ES Chapters 5 to 17** (Doc Ref. 6.1)) are described with reference to the scale of effect (i.e. moderate or major) and whether this is significant or not, and the nature of the effect (i.e. adverse or beneficial).

18.2. Summary of Likely Significant Effects

18.2.1. A summary of the identified likely significant residual effects (i.e. moderate and major, adverse and beneficial effects) for each topic is presented in Table 18-1 for the construction phase, Table 18-2 for the operational phase and Table 18-3 for the decommissioning phase. The table also lists the sensitivity of the receptor and the magnitude of the impact, however, it is noted that professional

judgement has been used to derive the final magnitude of the effect, with further reasoning included in the relevant technical chapters.

18.2.2. Decommissioning effects would be no greater than those set out for construction This is likely to overestimate the actual effects, which are expected to be shorter in duration and lower in magnitude.

18.2.3. Negligible and minor effects (adverse and beneficial) are not included in the following tables, as these have been considered as not significant.

Table 18-1: Significant Residual Effects during the Construction Phase

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Chapter 5: Agriculture and Soils				
Grade 1 and 2 agricultural land use within Solar Development Area (PV panels, access roads) (142.3 ha in total) and within Inter-Arrays and Grid Connection Route. (73.2 ha – short term; 1.3 ha – long term)	Very High	Low	Temporary short to long-term restriction to agricultural use, reversible	Moderate adverse (**Significant**)
Grade 1 and 2 agricultural land lost to areas of hardstanding (On-Site Substation and BESS Compounds, Solar Stations and CSEC Compounds). (11.9ha in total)	Very High	Medium	Long-term impact of compaction and anaerobic conditions on subsoil.	Major adverse (**Significant**)
Chapter 6: Air Quality				
No significant residual effects on Air Quality are predicted during construction of the Scheme.				
Chapter 7: Climate Change				
No significant residual effects on Climate Change are predicted during construction of the Scheme.				
Chapter 8: Cultural Heritage				
Archaeological Zone 1 (Land Parcel B and C), Archaeological Zone 2 (Land Parcel C), Archaeological Zones 4-8 (Land Parcel D)	High	Minor	Disturbance of buried archaeology from the installation of solar PV modules, supporting infrastructure and Inter-Array Connection in Field C-1-08.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Areas of high archaeological potential for deposits of late prehistoric to Roman date within the Solar Development Area (Land Parcels B, C and northern area of Land Parcel D)	Medium	Minor	Disturbance of buried archaeology from the installation of solar PV modules and supporting infrastructure.	Moderate adverse (**Significant**)
Historic landscape of the former precinct of Crowland Abbey	Medium	Moderate	Impacts from the presence and movement of temporary construction and plant equipment, increased traffic, noise, lighting and dust.	Moderate adverse (**Significant**)
Scheduled Monuments 'Settlement W of Cate's Cove Corner' (1004979), 'Settlement NE of Whitebread Farm' (1004978), 'Medieval boundary earthworks at Queen's Bank, 100m southeast of Providence House' (1009980), and St Guthlac's Cross (1005052).	High	Minor	Construction activities related to installing PV modules and related infrastructure. Presence, movement and storage of temporary construction and plant equipment and materials.	Moderate adverse (**Significant**)
Wykeham Chapel: a moated monastic grange and retreat house' (1019096) and Grade I Listed chapel (1064471)	High	Minor	Impact from movement and noise from construction traffic and plant on the setting.	From the Scheme on its own: Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
				In-combination with other developments: Moderate adverse (**Significant**)
Historic Landscape Character Areas – The Fens and The Wash.	Medium	Moderate	Impacts from the presence and movement of temporary construction and plant equipment, increased traffic, noise, lighting and dust.	From the Scheme on its own: Moderate adverse (Significant) In-combination with other developments: Moderate adverse (Significant)
Chapter 9: Ecology and Biodiversity				
No significant residual effects on Ecology and Biodiversity are predicted during construction of the Scheme.				
Chapter 10: Human Health				
No significant residual effects on Human Health are predicted during construction of the Scheme.				
Chapter 11: Hydrology and Flood Risk				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
No significant residual effects on Hydrology and Flood Risk are predicted during construction of the Scheme.				
Chapter 12: Landscape and Visual				
Landscape Receptors (Winter)				
Historic Landscape Character Area (HLCA) 9 The Fens Historic Landscape Character Zone (HLCZ) FEN 2 The Eastern Fens	Medium	Medium	Direct effects: Land disruption from the construction of PV modules, BESS, substations, cabling, haul routes, compounds, Overhead Inter-Array wooden poles, Grid Connection Route steel pylons, minor vegetation loss; land use change; localised changes to drainage channel character. Indirect effects: Reduced tranquillity from traffic, lighting, and visual intrusion of works.	Moderate adverse (**Significant**)
HLCA 10 The Wash HLCZ WSH 6 Townlands	Medium	Medium	Direct effects: Installation of Grid Connection Route steel lattice pylons, haul routes, compounds; minor vegetation removal; temporary land use	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
			change; intensification of industrial character. Indirect effects: Perceptual influence of works, traffic, night lighting; reduced tranquillity; intensification of overhead line prominence.	
HLCA 10: The Wash HLCZ WSH 6: Townlands HLCZ WSH4: Reclaimed Wash Farmlands	Medium	Medium	Totality of cumulative effects with other developments.	Moderate adverse (**Significant**)
Visual Receptors (Winter)				
Viewpoint 2: View northeast from Cloot Drove on the southern edge of Parcel A	Low	Medium	Visibility of construction works at Solar Development Area Land Parcels A and B.	Moderate adverse (**Significant**)
Viewpoint 3: View southeast from PRoW Crow/7/1 on the northwestern edge of Parcel A	Medium	High	Visibility of construction works at Solar Development Area Land Parcels A, B and C.	Major adverse (**Significant**)
Viewpoint 5: View south from Wash Bank on the northwestern edge of Parcel A	Medium	Medium	Visibility of construction works at Solar Development Area Land Parcel A and	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
			Underground Inter-Array Connection.	
Viewpoint 6: View northeast from A16 rest area southeast of Peak Hill	Low	High	Visibility of construction works of the On-Site 400kV Substation and BESS Compound and Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 7: View south from Queen's Bank east of Queen's Bank Farm	Medium	Medium	Visibility of construction works at Solar Development Area Land Parcel B.	Moderate adverse (**Significant**)
Viewpoint 8: View west from Martins Road south of Martins Farm	High	Medium	Visibility of construction works at Solar Development Area Land Parcel B and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 9: View east from Martins Road at the junction with Hardy's Lane	High	High Medium (assuming advanced planting has achieved 2 m by start of construction works)	Visibility of construction works at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate to Major adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Viewpoint 10: View west from PRoW Crow/12/1 on the eastern edge of Parcel C	High	Medium	Visibility of construction works at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 11: View northwest from Back Bank just east of Shepeau Stow	High	Low	Visibility of construction works at Solar Development Area Land Parcel C, Overhead Inter-Array Connection and Grid Connection Route in the background.	Moderate adverse (**Significant**)
Viewpoint 12: View west from Green Bank at the junction with Farrow Road	High	Low	Visibility of construction works at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 13: View east from Holbeach Drove Gate/B1168 just north of the Inter-Array Connections	Low	Medium	Visibility of construction works at Solar Development Area Land Parcel D and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 14: View southwest from Langary Gate Road south of Langary Gate Farm	Low	High	Visibility of construction works at Solar Development Area Land Parcel D.	Major adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Viewpoint 15: View northwest from West Drove North just north of Gedney Hill Golf Club	High	Medium	Visibility of construction works at Solar Development Area Land Parcel D.	Moderate adverse (**Significant**)
Viewpoint 20: View southwest from Barrier Bank at the junction with Blackgate	High	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 21: View northeast from Moulton Chapel Road/B1357 at the junction with Broad Gate	High	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 27: View southeast from the River Welland eastern embankment just south of the junction between Marsh Road and The Chase	Medium	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 30: View southeast from PRoW Wstn/6/1 at River Welland eastern embankment	Medium	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
LCC 2-1 View northeast from Wash Bank at the junction with Barrier Bank	Medium	Medium	Visibility of construction works at Grid Connection Route and the On-Site 400kV Substation and BESS Compound.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
LCC 3 View southwest from PRoW Crow/11/1 just east of Queen's Bank	Medium	Medium	Visibility of construction works at Solar Development Area Parcels B & C and the Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
LCC8 View northeast from Swindler's Road just north of Low Fulney	High	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
LCC 9 View southwest from High Road at the junction with Begger's Bush Lane	Low	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
LCC 10 View northwest from PRoW Wstn/3/1 just west of Wiseman's Gate	Medium	Medium	Visibility of construction works at Grid Connection Route.	Moderate adverse (**Significant**)
Residential and recreational receptors up to 2km of the Scheme	High	Low to Medium	Totality of cumulative effects with other developments.	Moderate adverse (**Significant**)
Chapter 13: Noise and Vibration				
Residential receptors on Broad Gate (RG53)	High	Moderate	Construction noise from Horizontal Directional Drilling for underground cable	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
			installation for the diversion of third party assets (if required)	
Residential receptors on Langary Gate Road	High	Moderate	Construction traffic noise	Moderate adverse (**Significant**)
Chapter 14: Socio-economics and Land Use				
No significant residual effects on Socio-economics and Land Use are predicted during construction of the Scheme.				
Chapter 15: Traffic and Access				
A151 Holbeach Road (L3), Hull's Drove (East) (L25), A16 (South of Crowland) (L34) and A16 (North of Peterborough) (L35)	High	Low	Cumulative effects on road safety from construction traffic, if peak construction traffic flows overlap with those from cumulative schemes.	Moderate adverse (**Significant**)
Chapter 16: Other Environmental Topics				
No significant residual effects on Other Environmental Topics; Electric and Magnetic Fields, Glint and Glare, Major accidents and Disasters, Materials and Waste predicted during construction of the Scheme.				
Chapter 17: Effect Interactions				
Residential properties within 300m of the Site on Cloot Drove, Wash Bank, Spalding Road, Queen's Bank, Martins Road, Hull's Drove, Back Bank, Green Bank, Chapel Hill, Eaugate Road, Broad Gate (South), Chapel Gate,	High	N/A	Increased disturbance due to noise and vibration, air quality, and traffic and access effects adding to the visual effects.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Parson's Lane, Dog Drove North, Holbeach Drove Gate (B1168), Langary Gate Road, West Drove North, North Road, Roman Road, Delgate Bank, West Gate, Austendyke Road, Broad Gate (North), A151 Holbeach Road, Cross Gate, Wiseman's Gate, Stone Gate, Marsh Road, Barrier Bank and Gedney Hill Special Needs Establishment (community receptor)				

Table 18-2: Significant Residual Effects during the Operational Phase

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Chapter 5: Agriculture and Soils				
Significant residual effects identified during the construction phase on agricultural land use will continue into the operational phase.				
Chapter 6: Air Quality				
No significant residual effects on Air Quality are predicted during operation of the Scheme.				
Chapter 7: Climate Change				
Global atmosphere	High	Beneficial (**Significant**)	The Scheme will provide significant carbon savings in energy generation and will play a part in transitioning to net zero required by nationally set policy commitments.	Beneficial (**Significant**)
Chapter 8: Cultural Heritage				
Historic landscape of the former precinct of Crowland Abbey	Medium	Minor	Impact on the setting from the presence of solar PV modules and supporting infrastructure for the lifespan of the Scheme.	Moderate adverse (**Significant**)
Scheduled Monuments 'Settlement W of Cate's Cove	High	Minor	Impact on the setting from the presence of solar PV modules	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Corner' (1004979), 'Settlement NE of Whitebread Farm' (1004978), 'Medieval boundary earthworks at Queen's Bank, 100m southeast of Providence House' (1009980) and St Guthlac's Cross (1005052)			and supporting infrastructure for the lifespan of the Scheme.	
Wykeham Chapel: a moated monastic grange and retreat house' (1019096) and Grade I Listed chapel (1064471)	High	Minor	Impact on the setting due to changes to its wider setting over the Scheme lifetime.	From the Scheme on its own: Moderate adverse (**Significant**) In-combination with other developments: Moderate adverse (**Significant**)
Historic Landscape Character – The Fens and The Wash	Medium	Moderate	Impact on the setting from the installation of infrastructure including PV modules, pylons, cabling, drainage and landscape mitigation.	From the Scheme on its own: Moderate adverse (**Significant**) In-combination with other developments: Moderate adverse (**Significant**)
Chapter 9: Ecology and Biodiversity				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Hedgerows and lines of trees	Local importance	Minor	Provision of reinstated and enhanced habitats.	Minor beneficial (**Significant at a local scale**)
Badger; barn owl; bats (assemblage and roosts); breeding birds; reptiles; otter; water vole; wintering birds	Bats – National importance Other species – Local importance	Moderate	Provision of reinstated and enhanced habitats.	Moderate beneficial (**Significant**)
Chapter 10: Human Health				
No significant residual effects on Human Health are predicted during operation of the Scheme.				
Chapter 11: Hydrology and Flood Risk				
No significant residual effects on Hydrology and Flood Risk are predicted during operation of the Scheme.				
Chapter 12: Landscape and Visual				
Year 1 - Landscape Effects (Winter)				
HLCA 9 The Fens HCLZ FEN 2 The Eastern Fens	Medium	Medium	Direct effects: Land use change; solar arrays, substations and BESS alter rural character; addition of Overhead Inter-Array and Grid Connection Route intensifies industrial character; tall pylons dominate skyline.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
			Mitigation planting not yet established. Indirect effects: Perception of reduced openness, increased visual clutter, occasional maintenance traffic and limited lighting.	
HLCA 10 The Wash HLCZ WSH 6 Townlands	Medium	Medium	Direct effects: Addition of Grid Connection Route's 400kV overhead line infrastructure and Cable Sealing End Compounds. Intensification of overhead line prominence. Indirect effects: Very limited intervisibility of substations and Overhead Inter-Array wooden poles.	Moderate adverse (**Significant**)
HLCA 10: The Wash HLCZ WSH 6: Townlands HLCZ WSH4: Reclaimed Wash Farmlands	Medium	Medium	Totality of cumulative effects with other developments.	Moderate adverse (**Significant**)
Year 1 - Visual Effects (Winter)				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Viewpoint 2: View northeast from Cloot Drove on the southern edge of Parcel A	Low	Medium	Visibility of infrastructure at Solar Development Area Parcels A and B.	Moderate adverse (**Significant**)
Viewpoint 3: View southeast from PRoW Crow/7/1 on the northwestern edge of Parcel A	Medium	High	Visibility of infrastructure at Solar Development Area Land Parcels A, B and C.	Major adverse (**Significant**)
Viewpoint 5: View south from Wash Bank on the northwestern edge of Parcel A	Medium	Medium	Visibility of infrastructure at Solar Development Area Land Parcel A.	Moderate adverse (**Significant**)
Viewpoint 6: View northeast from A16 rest area southeast of Peak Hill	Low	High	Visibility of On-Site 400kV Substation and BESS Compound and Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 7: View south from Queen's Bank east of Queen's Bank Farm	Medium	Medium	Visibility of infrastructure at Solar Development Area Land Parcel B.	Moderate adverse (**Significant**)
Viewpoint 8:	High	Medium	Visibility of infrastructure at Solar Development Area Land	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
View west from Martins Road south of Martins Farm			Parcel B and Overhead Inter-Array Connection.	
Viewpoint 9: View east from Martins Road at the junction with Hardy's Lane	High	High Medium (assuming advanced planting has achieved 2 m by start of construction works).	Visibility of infrastructure at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate to major adverse (**Significant**)
Viewpoint 10: View west from PRoW Crow/12/1 on the eastern edge of Parcel C	High	Medium	Visibility of infrastructure at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 11: View northwest from Back Bank just east of Shepeau Stow	High	Low	Visibility of infrastructure at Solar Development Area Land Parcel C, Overhead Inter-Array Connection and Grid Connection Route in the background.	Moderate adverse (**Significant**)
Viewpoint 13:	Low	Medium	Visibility of infrastructure at Solar Development Area Land	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
View east from Holbeach Drove Gate/B1168 just north of the Inter-Array Connections			Parcel D and Overhead Inter-Array Connection.	
Viewpoint 14: View southwest from Langary Gate Road south of Langary Gate Farm	Low	High	Visibility of infrastructure at Solar Development Area Land Parcel D.	Major adverse (**Significant**)
Viewpoint 15: View northwest from West Drove North just north of Gedney Hill Golf Club	High	Medium	Visibility of infrastructure at Solar Development Area Land Parcel D.	Moderate adverse (**Significant**)
Viewpoint 20: View southwest from Barrier Bank at the junction with Blackgate	High	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 21: View northeast from Moulton Chapel Road/B1357 at the junction with Broad Gate	High	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 27: View southeast from the River Welland eastern embankment	Medium	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
just south of the junction between Marsh Road and The Chase				
Viewpoint 30: View southeast from PRoW Wstn/6/1 at River Welland eastern embankment	Medium	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
LCC 2-1 View northeast from Wash Bank at the junction with Barrier Bank	Medium	Medium	Visibility of Grid Connection Route and the On-Site 400kV Substation and BESS Compound.	Moderate adverse (**Significant**)
LCC 3 View southwest from PRoW Crow/11/1 just east of Queen's Bank	Medium	Medium	Visibility of infrastructure at Solar Development Area Parcels B & C and the Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
LCC8 View northeast from Swindler's Road just north of Low Fulney	High	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
LCC 9	Low	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
View southwest from High Road at the junction with Begger's Bush Lane				
LCC 10 View northwest from PRoW Wstn/3/1 just west of Wiseman's Gate	Medium	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
Year 15 - Landscape Effects (Summer)				
HLCA 9 The Fens HLCZ FEN 2 The Eastern Fens	Medium	Medium	Direct effects: Mitigation planting matures, increasing enclosure of Solar Development Area parcels. Indirect effects: Screening softens views but does not reduce prominence of tall structures.	Moderate adverse (**Significant**)
HLCA 10 The Wash HLCZ WSH 6 Townlands	Medium	Medium	Direct effects: Similar to Year 1. Indirect effects: Similar to Year 1; mitigation planting adds screening.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Year 15 - Visual Effects (Summer)				
Viewpoint 2: View northeast from Cloot Drove on the southern edge of Parcel A	Low	Medium	Visibility of infrastructure at Solar Development Area Parcels A and B.	Moderate adverse (**Significant**)
Viewpoint 3: View southeast from PRoW Crow/7/1 on the northwestern edge of Parcel A	Medium	High	Visibility of infrastructure at Solar Development Area Land Parcels A, B and C.	Major adverse (**Significant**)
Viewpoint 5: View south from Wash Bank on the northwestern edge of Parcel A	Medium	Medium	Visibility of infrastructure at Solar Development Area Land Parcel A.	Moderate adverse (**Significant**)
Viewpoint 6: View northeast from A16 rest area southeast of Peak Hill	Low	High	Visibility of On-Site 400kV Substation and BESS Compound and Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 8: View west from Martins Road south of Martins Farm	High	Low	Visibility of infrastructure at Solar Development Area Land Parcel B and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Viewpoint 9: View east from Martins Road at the junction with Hardy's Lane	High	Medium	Visibility of infrastructure at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 10: View west from PRoW Crow/12/1 on the eastern edge of Parcel C	High	Low	Visibility of infrastructure at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant**)
Viewpoint 14: View southwest from Langary Gate Road south of Langary Gate Farm	Low	Medium	Visibility of infrastructure at Solar Development Area Land Parcel D.	Moderate adverse (**Significant**)
Viewpoint 15: View northwest from West Drove North just north of Gedney Hill Golf Club	High	Medium	Visibility of infrastructure at Solar Development Area Land Parcel D.	Moderate adverse (**Significant**)
Viewpoint 20: View southwest from Barrier Bank at the junction with Blackgate	High	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 21:	High	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
View northeast from Moulton Chapel Road/B1357 at the junction with Broad Gate				
Viewpoint 27: View southeast from the River Welland eastern embankment just south of the junction between Marsh Road and The Chase	Medium	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
Viewpoint 30 View southeast from PRoW Wstn/6/1 at River Welland eastern embankment	Medium	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
LCC 2-1 View northeast from Wash Bank at the junction with Barrier Bank	Medium	Medium	Visibility of Grid Connection Route and the On-Site 400kV Substation and BESS Compound.	Moderate adverse (**Significant**)
LCC 3 View southwest from PRoW Crow/11/1 just east of Queen's Bank	Medium	Medium	Visibility of infrastructure at Solar Development Area Parcels B & C and the Overhead Inter-Array Connection.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
LCC 8 View northeast from Swindler's Road just north of Low Fulney	High	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
LCC 9 View southwest from High Road at the junction with Begger's Bush Lane	Low	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
LCC 10 View northwest from PRoW Wstn/3/1 just west of Wiseman's Gate	Medium	Medium	Visibility of Grid Connection Route.	Moderate adverse (**Significant**)
Residential and recreational receptors up to 2km of the Scheme	High	Low to Medium	Totality of cumulative effects with other developments.	Moderate adverse (**Significant**)
Chapter 13: Noise and Vibration				
No significant residual effects on Noise and Vibration are predicted during operation of the Scheme.				
Chapter 14: Socio-economics and Land Use				
No significant residual effects on Socio-economics and Land Use are predicted during operation of the Scheme.				
Chapter 15: Traffic and Access				
No significant residual effects on the Traffic and Access are predicted during operation of the Scheme.				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Chapter 16: Other Environmental Topics				
No significant residual effects on Other Environmental Topics; Electric and Magnetic Fields, Glint and Glare, Major Accidents and Disasters, Materials and Waste predicted during operation of the Scheme.				
Chapter 17: Effect Interactions				
Residential properties within 300m of the Site on Cloot Drove, Wash Bank, Barrier Bank, Queen's Bank, Martins Road, Hull's Drove, Back Bank, Green Bank, Chapel Hill, Broad Gate (South), Chapel Gate, Parson's Lane, Holbeach Drove Gate (B1168) , Langary Gate Road, West Drove North, Roman Road, Broad Gate (North) and Gedney Hill Special Needs Establishment (community receptor).	High	N/A	Increased disturbance due to visual, noise, and glint and glare effects.	Moderate adverse (**Significant**) Reducing to slight adverse (**not significant**) by Year 15 on Hull's Drove, Back Bank, Green Bank, Chapel Hill, Holbeach Drove Gate (B1168).

Table 18-3: Significant Residual Effects during the Decommissioning Phase

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Chapter 5: Agriculture and Soils				
No significant residual effects on Agriculture and Soils are predicted during decommissioning of the Scheme.				
Chapter 6: Air Quality				
No significant residual effects on Air Quality are predicted during decommissioning of the Scheme.				
Chapter 7: Climate Change				
No significant residual effects on Climate Change are predicted during decommissioning of the Scheme.				
Chapter 8: Cultural Heritage				
Historic landscape of the former precinct of Crowland Abbey	Medium	Moderate	Impacts from the presence and movement of temporary decommissioning and plant equipment, increased traffic, noise, lighting and dust.	Moderate adverse (**Significant**)
Scheduled Monuments 'Settlement W of Cate's Cove Corner' (1004979), 'Settlement NE of Whitebread Farm' (1004978), 'Medieval boundary earthworks at Queen's Bank, 100m south east of Providence House'	High	Minor	Decommissioning activities related to decommissioning PV modules and related infrastructure. Presence, movement and storage of temporary decommissioning and plant equipment and materials.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
(1009980), and St Guthlac's Cross (1005052).				
Wykeham Chapel: a moated monastic grange and retreat house' (1019096) and Grade I Listed chapel (1064471)	High	Minor	Impact from movement and noise from decommissioning traffic and plant on the setting.	From the Scheme on its own: Moderate adverse (**Significant**) In-combination with other developments: Moderate adverse (**Significant**)
Historic Landscape Character Areas – The Fens and The Wash.	Medium	Moderate	Impacts from the presence and movement of temporary decommissioning and plant equipment, increased traffic, noise, lighting and dust.	From the Scheme on its own: Moderate adverse (**Significant**) In-combination with other developments: Moderate adverse (**Significant**)
Chapter 9: Ecology and Biodiversity				
No significant residual effects on Ecology and Biodiversity are predicted during decommissioning of the Scheme.				
Chapter 10: Human Health				
No significant residual effects on Human Health are predicted during decommissioning of the Scheme.				
Chapter 11: Hydrology and Flood Risk				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
No significant residual effects on Hydrology and Flood Risk are predicted during decommissioning of the Scheme.				
Chapter 12: Landscape and Visual				
Landscape Effects				
HLCA 9 The Fens HLCZ FEN 2 The Eastern Fens	Medium	Medium	Direct effects: Removal of infrastructure; temporary works similar to construction; partial screening by established mitigation planting. Indirect effects: Reduced perceptual impact due to established planting; short-term disturbance.	Moderate adverse (**Significant**)
HLCA 10 The Wash HLCZ WSH 6 Townlands	Medium	Medium	Direct effects: Removal of infrastructure; temporary works similar to construction. Indirect effects: Reduced perceptual impact due to established planting; short-term disturbance.	Moderate adverse (**Significant**)
Visual Effects				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Viewpoint 3: View southeast from PRoW Crow/7/1 on the northwestern edge of Parcel A	Medium	High	Visibility of decommissioning works at Solar Development Area Land Parcels A, B and C.	Major adverse **(Significant)**
Viewpoint 5: View south from Wash Bank on the northwestern edge of Parcel A	Medium	Medium	Visibility of decommissioning works at Solar Development Area Land Parcel A and Underground Inter-Array Connection.	Moderate adverse **(Significant)**
Viewpoint 6: View northeast from A16 rest area southeast of Peak Hill	Low	High	Visibility of decommissioning works of the On-Site 400kV Substation and BESS Compound and Grid Connection Route.	Moderate adverse **(Significant)**
Viewpoint 8: View west from Martins Road south of Martins Farm	High	Low	Visibility of decommissioning works at Solar Development Area Land Parcel B and Overhead Inter-Array Connection.	Moderate adverse **(Significant)**
Viewpoint 9:	High	Medium	Visibility of decommissioning works at Solar Development Area Land Parcel C and	Moderate adverse **(Significant)**

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
View east from Martins Road at the junction with Hardy's Lane			Overhead Inter-Array Connection.	
Viewpoint 10: View west from PRoW Crow/12/1 on the eastern edge of Parcel C.	High	Low	Visibility of decommissioning works at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant)**
Viewpoint 12: View west from Green Bank at the junction with Farrow Road	High	Low	Visibility of decommissioning works at Solar Development Area Land Parcel C and Overhead Inter-Array Connection.	Moderate adverse (**Significant)**
Viewpoint 15: View northwest from West Drove North just north of Gedney Hill Golf Club	High	Medium	Visibility of decommissioning works at Solar Development Area Land Parcel D.	Moderate adverse (**Significant)**
Viewpoint 20: View southwest from Barrier Bank at the junction with Blackgate	High	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (**Significant)**

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Viewpoint 21: View northeast from Moulton Chapel Road/B1357 at the junction with Broad Gate	High	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (**Significant)**
Viewpoint 27: View southeast from the River Welland eastern embankment just south of the junction between Marsh Road and The Chase	Medium	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (**Significant)**
Viewpoint 30 View southeast from PRoW Wstn/6/1 at River Welland eastern embankment	Medium	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (Significant)
LCC 2-1 View northeast from Wash Bank at the junction with Barrier Bank	Medium	Medium	Visibility of decommissioning works at Grid Connection Route and the On-Site 400kV Substation and BESS Compound.	Moderate adverse (**Significant)**

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
LCC 3 View southwest from PRoW Crow/11/1 just east of Queen's Bank	Medium	Medium	Visibility of decommissioning works at Solar Development Area Parcels B & C and the Overhead Inter-Array Connection.	Moderate adverse (**Significant)**
LCC 8 View northeast from Swindler's Road just north of Low Fulney	High	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (**Significant)**
LCC 9 View southwest from High Road at the junction with Begger's Bush Lane	Low	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (**Significant)**
LCC 10 View northwest from PRoW Wstn/3/1 just west of Wiseman's Gate	Medium	Medium	Visibility of decommissioning works at Grid Connection Route.	Moderate adverse (**Significant)**
Chapter 13: Noise and Vibration				
Residential receptors on Langary Gate Road	High	Moderate	Decommissioning traffic noise	Moderate adverse (**Significant)**
Chapter 14: Socio-economics and Land Use				

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
No significant residual effects on Socio-economics and Land Use are predicted during decommissioning of the Scheme.				
Chapter 15: Traffic and Access				
No significant residual effects on Traffic and Access are predicted during decommissioning of the Scheme.				
Chapter 16: Other Environmental Topics				
No significant residual effects on Other Environmental Topics; Electric and Magnetic Fields, Glint and Glare, Major Accidents and Disasters, Materials and Waste predicted during decommissioning of the Scheme.				
Chapter 17: Effect Interactions				
Residential properties within 300m of the Site on Cloot Drove, Wash Bank, Spalding Road, Queen's Bank, Martins Road, Hull's Drove, Back Bank, Green Bank, Chapel Hill, Eaugate Road, Broad Gate (South), Chapel Gate, Parson's Lane, Dog Drove North, Holbeach Drove Gate (B1168), Langary Gate Road, West Drove North, North Road, Roman Road, Delgate Bank, West Gate, Austendyke Road, Broad	High	N/A	Increased disturbance due to visual, noise and vibration, air quality, and traffic and access effects.	Moderate adverse (**Significant**)

Description of resource/receptor	Sensitivity (Value)	Magnitude of Impact	Description of Impact	Residual Effect
Gate (North), A151 Holbeach Road, Cross Gate, Wiseman's Gate, Stone Gate, Barrier Bank, Marsh Road and Gedney Hill Special Needs Establishment (community receptor)				