

West Burton Solar Project

Environmental Statement Chapter 23 Summary of Significant Effects Revision B (Tracked)

Prepared by: Lanpro Services

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Report Prepared for: West Burton Solar Project Ltd.
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Environmental Statement Chapter 23: Summary of Significant Effects Revision ~~A~~B

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23 Summary of Significant Effects

23.1 Summary and Introduction

- 23.1.1 West Burton Solar Project is a proposed solar photovoltaic (PV) array electricity generating facility and electrical storage facility, each with a total capacity exceeding 50 megawatts (MW), and an export connection to the National Grid (the Development).
- 23.1.2 An Environmental Statement (ES) has been prepared on behalf of the Applicant in relation to an application to be made to the Secretary of State (SoS) for Department for Energy Security and Net Zero (ESNZ), under Section 37 of the Planning Act 2008.
- 23.1.3 The Application is for a Development Consent Order (DCO) for the construction, operation and maintenance, and decommissioning of West Burton Solar Project. The Development is classified as a Nationally Significant Infrastructure Project (NSIP) under the Planning Act 2008. An Environmental Impact Assessment (EIA) has been undertaken for the Development and as such, the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the EIA Regulations) apply.
- 23.1.4 This Summary of Significant Effects forms part of the application to the Planning Inspectorate (PINS) for a DCO for the Scheme. Its purpose is to summarise significant residual effects of the Scheme identified within the technical chapters of the ES [~~EN010132/APP/AWB6.2-039~~ to [APP-061](#)].
- 23.1.5 Each technical chapter considers in detail the beneficial and adverse residual effects of the Scheme after the implementation of mitigation measures, both through the design of the Scheme ('embedded mitigation') and through further measures ('additional mitigation'). This assessment covers the construction, operation and decommissioning phases of the Scheme.
- 23.1.6 Each effect is described in the technical chapters in terms of the scale of the effect (for example, major or moderate), in terms of the nature of the effect (adverse, beneficial or neutral), and in terms of the significance of the effect (significant, not significant).
- 23.1.7 A summary of the significant residual effects identified in the technical chapters is set out in Table 23.1. This does not include effects the scale of which are 'negligible' or 'minor' nor effects which are 'neutral' in nature.
- 23.1.8 In addition, Table 23.1 sets out the cumulative effects for Climate Change [[REP1-012](#)], Ecology and Biodiversity [[APP-047](#)], Cultural Heritage [[APP-051](#)], Socio-Economic, Tourism and Recreation [[APP-056](#)], Waste [[APP-058](#)], Other Environmental Matters: Human Health [[APP-059](#)]. All other topics do not have significant cumulative effects and therefore are not presented in Table 23.1.

Table 23.1: Schedule of Significant Effects

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Climate Change [EN010132/APP/WB6.2.7REP1-012]	Construction, Operation and Decommissioning	Generation of electricity with low GHG intensity	Major beneficial significant	None proposed	Major beneficial, significant	It is noted that CCR baseline predictions from UKCP18, will expire in 2079. The main aspects in the baseline predictions that are likely to change post 2079 is the flood risk baseline or additional emissions arising from additional replacement materials as a result of maintenance activities during operation. However, the effects are not likely to be significant particularly when considered against the benefits of the overall low carbon energy generation associated with the operation of the Scheme (which would only be lost at the point of decommissioning).
Climate Change [REP1-012]	Construction, Operation and Decommissioning	Climate Change Resilience	N/A	No Change.	Major Beneficial cumulative effect	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
	<u>Cumulative</u>					
Landscape and Visual Impact [EN010132/APP/WB6.2.8-046]	Operation (Year 15)	RLCT 4a: Unwooded Vales landscape type: West Burton 1	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change
Landscape and Visual Impact [EN010132/APP/WB6.2.8-046]	Operation (Year 15)	LLCA Profile: 3 The Till Vale: West Burton 1	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change
Landscape and Visual Impact [EN010132/APP/WB6.2.8-046]	Operation (Year 15)	RLCT 4a: Unwooded Vales landscape type: West Burton 2	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	LLCA Profile: 3 The Till Vale: West Burton 2	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	RLCT 4a: Unwooded Vales landscape type: West Burton 3	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	LLCA Profile: 2 Trent Valley: West Burton 3	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	LLCA Profile: 3 The Till Vale: West Burton 3	Neutral/ Minor Adverse, Not Significant	New and augmented hedgerows and new shelterbelt and scattered tree planting; grassland	Moderate Beneficial, Significant	No Change
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	Viewpoint Receptors: VP 8 and VP 24.	Moderate-Major Adverse, Significant	Planting and grassland reversion, reinforcement of existing woodland/scrub and hedgerow cover, additional hedgerow trees, woodland planting, tree and hedge planting adjacent to watercourses, planting along the boundary of	Moderate Adverse, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				substations and energy storage areas, 5m wide shelterbelts, planting along transport routes, footpaths and bridleways and hedgerow planting along field boundaries.		
Landscape and Visual Impact [EN010132/APP/WB6.2.8-046]	Operation (Year 15)	Viewpoint Receptors: VP 18, VP 26, VP 27 and VP 28.	Moderate Adverse, Significant	Planting and grassland reversion, reinforcement of existing woodland/scrub and hedgerow cover, additional hedgerow trees, woodland planting, tree and hedge	Moderate Adverse, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				planting adjacent to watercourses, planting along the boundary of substations and energy storage areas, 5m wide shelterbelts, planting along transport routes, footpaths and bridleways and hedgerow planting along field boundaries.		
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	Transport Receptor TO09.	Moderate Adverse, Significant	Planting and grassland reversion, reinforcement of existing woodland/scrub and hedgerow cover, additional	Moderate Adverse, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				hedgerow trees, woodland planting, tree and hedge planting adjacent to watercourses, planting along the boundary of substations and energy storage areas, 5m wide shelterbelts, planting along transport routes, footpaths and bridleways and hedgerow planting along field boundaries.		
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	Transport Receptor TO10.	Moderate Adverse, Significant	Planting and grassland reversion, reinforcement of	Moderate Adverse, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				<p>existing woodland/scrub and hedgerow cover, additional hedgerow trees, woodland planting, tree and hedge planting adjacent to watercourses, planting along the boundary of substations and energy storage areas, 5m wide shelterbelts, planting along transport routes, footpaths and bridleways and hedgerow planting along field boundaries.</p>		

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Landscape and Visual Impact [EN010132/APP/ WB6.2.8-046]	Operation (Year 15)	PRoW Receptors: PR007 and PR038.	Moderate-Major Adverse, Significant	Planting and grassland reversion, reinforcement of existing woodland/scrub and hedgerow cover, additional hedgerow trees, woodland planting, tree and hedge planting adjacent to watercourses, planting along the boundary of substations and energy storage areas, 5m wide shelterbelts, planting along transport routes, footpaths and bridleways and	Moderate Adverse, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				hedgerow planting along field boundaries.		
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Hedgerows and Trees - PV and BESS Sites	Neutral	Habitat reinstatement and enhancement	Beneficial, significant at District level	No Change
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Construction (medium-term)	Hedgerows and Trees – Cable Route Corridor	Adverse (medium-term)	Implementation of protection and good practice surrounding hedgerow removal and reinstatement; buffer zones and enhancement measures	Adverse, significant at Site level	No Change
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Grassland: Arable Field Margins, and Floodplain Grazing Marsh	Neutral	Creation of the protective buffer zones; remediation of lowland meadow	Beneficial, significant at District level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				and floodplain grazing marsh grassland habitats		
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Ditches and Watercourses – PV and BESS Sites	Adverse	Cessation of arable practices; creation and management of the protective buffer zones	Beneficial, significant at Local level	No Change
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Construction (medium-term)	Ditches and Watercourses – Cable Route Corridor	Adverse	Implementation of protection and good practice; reinstatement, reseeded and enhancement measures	Adverse, significant at Site level	No Change
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Ponds	Adverse	Creation of new ponds, enhancement of retained ponds	Beneficial, significant at Local level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Bats	Neutral	Adoption of development free buffers at field boundaries; construction protocols; protocols for removal of trees; grassland, scrub, tree and hedgerow creation	Beneficial, significant at District level	No Change
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Otter and Water Vole	Neutral	Cessation of arable practices; creation and management of the protective buffer zones	Beneficial, significant at Local level	No Change
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Polecat and Hedgehog	Adverse	Grassland habitat creation and management, hedgerow and	Beneficial, significant at District level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				tree planting; field margin buffer zones		
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Construction Operational	Harvest Mouse	Adverse	Grassland habitat creation and management, hedgerow and tree planting; field margin buffer zones	Adverse, significant at Site level	No Change
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Brown Hare	Neutral	Cessation of arable practices	Beneficial, significant at Local level	No Change
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Reptiles and Amphibians	Adverse	Grassland habitat creation and management, hedgerow and tree planting;	Beneficial, significant at Local level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				field margin buffer zones		
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Breeding Birds: Skylark and Grey Partridge	Adverse	Creation of optimal foraging habitat of diverse grassland types; provision of areas of open, undeveloped land for set-aside habitat	Adverse, significant at Local level	No Change
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Breeding Birds: Lapwing, Curlew and Yellow Wagtail	Adverse	Creation of wetland and grassland breeding habitats.	Neutral to Beneficial, significant at Local level	No Change
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Breeding Birds: Other Species	Adverse	Measures to be taken during the cabling work, including timing of work near potential nesting	Beneficial, significant at Local to District level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				sites, monitoring, information to staff and buffering; planting of hedging, trees and woody vegetation		
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Overwintering Birds	Adverse	Measures to be taken to avoid causing undue disturbance	Adverse, significant at Site level	No Change
Ecology and Biodiversity [EN010132/APP/ WB6.2.9-047]	Operational	Invertebrates	Adverse	Measures to minimise the risk of pollution, run-off and dust deposition; reinstatement of habitat losses; prescriptions on working methods; retained and	Beneficial, significant at Local level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				protected buffer zones and the grassland habitats		
Ecology and Biodiversity [EN010132/APP/WB6.2.9-047]	Operational	Badgers	Adverse	Requirements for fencing installation; information provided to contractors; measures to reduce the probability of incidental mortality	Beneficial, significant at Site level	No Change
Ecology and Biodiversity [APP-047]	Operation Cumulative Effect	Reptiles and amphibians at District Level	N/A	No Change.	Moderate Cumulative beneficial effect	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Ecology and Biodiversity [APP-047]	Operation Cumulative Effect	Skylark, yellow, wagtail, grey partridge and quail at a Local to District level.	Local to District level (depending on what mitigation is adopted) (Chapter 9: Ecology and Biodiversity, section 9.9.11).	(Chapter 9: Ecology and Biodiversity, section 9.9.11).	Moderate cumulative adverse effect	No Change.
Ecology and Biodiversity [APP-047]	Operation Cumulative Effect	Overwintering birds	N/A	No Change	Cumulative Significant adverse effect at Site level	No Change
Ecology and Biodiversity [APP-047]	Construction Cumulative Effect	Hedgerows, trees, ditches and watercourses within the shared cable route (depending on final designs, methods, routing	N/A	No Change	Cumulative adverse medium term effect at Site level	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		and duration/sequence				
Hydrology, Flood Risk and Drainage [EN010132/APP/WB6.2.10-048]		No significant residual effects are predicted during construction, operation and decommissioning of the Scheme				<p>For development with a lifetime between 2061 and 2100, use the central allowance for the 2070s [sic 2080] epoch (2061 to 2125).'</p> <p>If a potential decommissioning date extends beyond 40 years, taking the Development lifespan into the 2080s epoch, a 32% allowance in flows for the Witham Management Catchment (West Burton 1 and West Burton 2) and a 39% allowance in flows for the Lower Trent and Erewash Management Catchment (West Burton 3) must be considered.</p> <p>Therefore, if the Proposed Development lifetime extends beyond 40 years, hydraulic modelling must be undertaken to consider a 32% (West Burton 1 and West Burton 2) and 39% (West</p>

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
						<p>Burton 3) uplift in river flows, in consultation with the Environment Agency. It is highly likely that updated modelling will show an increase in flood extents and depths.</p> <p>As such, any development proposed in areas already shown to be at risk or areas currently adjacent to areas at risk may need to be redesigned to ensure that flood storage and conveyance is maintained for all main rivers. This could involve removing the first row of panels on a Photovoltaic (PV) table or removing the racking system and associated infrastructure from the modelled extent.</p> <p>The requirement to do this could be built in to the OEMP.</p>

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Ground Conditions and Contamination [EN010132/APP/WB6.2.11-049]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					
Minerals [EN010132/APP/WB6.2.12]-050	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					
Cultural Heritage [EN010132/APP/WB6.2.13]-051	Construction	Scheduled Monuments: The medieval bishop's palace and deer park, Stow Park (1019229)	Moderate Adverse, Significant (medium term, reversible)	No specific mitigation proposed due to location within Scheme	Moderate Adverse, Significant	No Change
Cultural Heritage [EN010132/APP/WB6.2.13-051]	Construction	Non-Designated Archaeological Remains: AR13 (North Ingleby DMV)	Slight or Moderate Adverse, potentially significant	Informative trenching and possible strip, map and sample (SMS) excavation	Slight or Moderate Adverse, potentially significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				and 'preservation by record'		
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Construction	Non-Designated Archaeological Remains: AR25 (Undated enclosure)	Neutral to Moderate Adverse, Significant	Strip, Map and Sample (SMS) excavation and 'preservation by record'	Neutral to Moderate Adverse, potentially Significant	No Change
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Construction	Non-Designated Archaeological Remains: AR26 (Possible ring ditch and field systems)	Unconfirmed - Neutral or Large <u>or Large</u> Adverse, Significant	Strip, Map and Sample (SMS) excavation and 'preservation by record'	Neutral or Large Adverse, potentially Significant	No Change
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Construction	Non-Designated Archaeological Remains: AR44 (Stow Park Deserted Med. Settlement)	Unconfirmed Slight or Moderate Adverse, potentially Significant	Informative trenching followed by preservation in situ with embedded avoidance	Slight or Moderate Adverse, potentially Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				mitigation if appropriate. Strip, Map and Sample (SMS) excavation and 'preservation by record'		
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Construction	Non-Designated Archaeological Remains: AR64 (Rectilinear enclosure)	Moderate Adverse, Significant	Strip, Map and Sample (SMS) excavation and 'preservation by record'	Moderate Adverse, Significant	No Change
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Construction	Non-Designated Archaeological Remains: AR68 (Anomalies indicative of IA/RB to med. period settlement)			Slight to Large Adverse, potentially Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Operation	Scheduled Monuments: The medieval bishop's palace and deer park, Stow Park (1019229)	Large Adverse, Significant	Landscape mitigation proposals (e.g., planting of shelter belts and scattered trees, planting of new hedgerows, existing hedgerow reinforcement) which should reach maturity by Year 15	Large Adverse, Significant	No Change
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Operation	Non-Designated Archaeological Remains: AR01 (Uncertain ditches and pits) AR08 (Uncertain ditch)	Neutral to Moderate Beneficial, potentially Significant	No additional mitigation during Operational Phase	Neutral to Moderate Beneficial, potentially Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		AR11 (Windmill mound (site of)) AR17 (Ingleby Wood Farm (site of)) AR18 (Uncertain linear anomalies) AR19 (Uncertain circular anomaly) AR20 (Possible IA features and finds) AR29 (Stow Park Cottage (site of)) AR30 (Brick kilns (site of)) AR50 (Med. ridge and furrow)				
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Operation	Non-Designated Archaeological Remains:	Neutral to Large Beneficial,	No additional mitigation during	Neutral to Large Beneficial,	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		AR22 (Undated (RB?) enclosure) AR24 (IA/RB enclosure) AR34 (Stow med. deer park) AR44 (Stow Park Deserted Med. Settlement) AR46 (Possible undated enclosure) AR47 (Possible undated ditch) AR48 (Uncertain linear and curvilinear anomalies)	potentially Significant	Operational Phase	potentially Significant	

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		AR49 (RB settlement enclosures) AR51 (RB settlement enclosures) AR52 (Possible prehistoric ditch) AR54 (Undated ditches) AR55 (RB roadside settlement and possible industrial site)				
Cultural Heritage [EN010132/APP/ WB6.2.13-051]	Operation	Non-Designated Historic Landscape: HLI21266 – Parliamentary Planned Enclosure	Moderate Adverse, Significant	Landscape mitigation proposals (e.g., planting of shelter belts and scattered trees, planting of new	Moderate Adverse, Significant	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		HLI20787 – Modern Fields HLI20791 – Ancient Enclosure HLI20860 – Parliamentary Planned Enclosure		hedgerows, existing hedgerow reinforcement) which should reach maturity by Year 15		
Cultural Heritage [EN010132/APP/WB6.2.13-051]	Decommissioning	Scheduled Monuments: The medieval bishop's palace and deer park, Stow Park (1019229)	Moderate Adverse, Significant	No specific mitigation proposed due to location within Scheme	Moderate Adverse, Significant	No Change
Cultural Heritage [APP-051]	Construction, Operation and Decommissioning Cumulative Effect	Views from the Lincoln Cliff contribute to the setting of the asset on Roman villa west of Scampton Cliff Farm	N/A	N/A	Potential for up to Moderate Adverse cumulative effects	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		(NHLE 1005041)				
Transport and Access [EN010132/APP/ WB6.2.14-052]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					No Change
Noise and Vibration [EN010132/APP/ WB6.2.15-053]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					No Change
Glint and Glare [EN010132/APP/ WB6.2.16-054]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					No Change
Air Quality [EN010132/APP/ WB6.2.17-055]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme.					No Change
Socio-Economic, Tourism and Recreation [EN010132/APP/ WB6.2.18-056]	Construction	Inbound workers to increase accommodation occupancy rates and resultant need	Major-moderate beneficial, Significant.	None	Major-moderate beneficial, Significant.	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
		for FTE in the accommodation sector.				
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Construction	Impact upon the local area with regards to the uplift in occupation rates for accommodation units.	Major-moderate beneficial, Significant.	None	Major-moderate beneficial, Significant.	No Change
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Construction	Access to employment within the Local Impact Area.	Moderate beneficial, Significant.	None	Moderate beneficial, Significant.	No Change
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Construction	Access to education within the Local Impact Area.	Moderate beneficial, Significant.	None	Moderate beneficial, Significant.	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Construction	Landscape and visual impact on local tourist attractions	Moderate Adverse, Significant.	Planting and grassland reversion, reinforcement of existing woodland/scrub and hedgerow cover, additional hedgerow trees, woodland planting, tree and hedge planting adjacent to watercourses, planting along the boundary of substations and energy storage areas, 5m wide shelterbelts, planting along transport routes, footpaths and bridleways and	Moderate Adverse, Significant.	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				hedgerow planting along field boundaries.		
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Construction	Short-term temporary closure of the Trent Valley Way Long Distance Recreational Route.	Moderate Adverse, Significant.	Any crossing or traffic conflict points will be overseen by spotters or banksmen for HGVs. Diversions to routes will be appropriately signed, and the duration and length of diversions will be optimised to minimise impacts on accessibility and desirability.	Moderate Adverse, Significant.	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				Other measures include: speeds to be limited to 10mph, drivers to give way to PRow users, any damage to PRowS etc.		
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Construction	Short-term temporary closure due to cable burying upon National Byways.	Moderate Adverse, Significant.	Any crossing or traffic conflict points will be overseen by spotters or banksmen for HGVs. Diversions to routes will be appropriately signed, and the duration and length of diversions will be optimised to	Moderate Adverse, Significant.	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				<p>minimise impacts on accessibility and desirability.</p> <p>Other measures include: speeds to be limited to 10mph, drivers to give way to PRow users, any damage to PRow etc.</p>		
Socio-Economic, Tourism and Recreation [EN010132/APP/WB6.2.18-056]	Decommissioning	Uplift in accommodation demand relating to the influx of temporary workers.	Moderate Beneficial, Significant.	None	Moderate Beneficial, Significant.	No Change
Socio-Economic, Tourism and Recreation [APP-056]	Construction, Decommissioning Cumulative Effect	Construction sector employment	N/A	No Change.	Peak cumulative medium-term temporary	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
					<u>moderate beneficial effect significant at Local level</u>	
<u>Socio-Economic, Tourism and Recreation [APP-056]</u>	<u>Construction, Decommissioning Cumulative Effect</u>	<u>Accommodation sector employment</u>	<u>N/A</u>	<u>No Change</u>	<u>Peak cumulative medium term temporary major-moderate beneficial effect, significant at Local level</u>	<u>No Change</u>
<u>Socio-Economic, Tourism and Recreation [APP-056]</u>	<u>Construction, Decommissioning Cumulative Effect</u>	<u>Economic activity and Employment</u>	<u>N/A</u>	<u>No Change.</u>	<u>Peak cumulative medium-term temporary moderate beneficial</u>	<u>No Change.</u>

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
					<u>effect, significant at Local level</u>	
<u>Socio-Economic, Tourism and Recreation [APP-056]</u>	<u>Construction Cumulative Effect</u>	<u>Accommodation stock (housing)</u>	<u>N/A</u>	<u>No Change.</u>	<u>Peak cumulative medium-term moderate beneficial effect, significant at Local level</u>	<u>No Change.</u>
<u>Socio-Economic, Tourism and Recreation [APP-056]</u>	<u>Construction Cumulative Effect</u>	<u>Access to employment (IMD)</u>	<u>N/A</u>	<u>No Change.</u>	<u>Peak cumulative medium-term temporary major-moderate beneficial effect, significant at</u>	<u>No Change.</u>

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
					Local level	
Socio-Economic, Tourism and Recreation [APP-056]	Construction Cumulative Effect	Access to education (IMD)	N/A	No Change.	Peak cumulative medium-term temporary moderate beneficial effect, significant at Local level	No Change.
Socio-Economic, Tourism and Recreation [APP-056]	Construction, Decommissioning Cumulative Effect	Construction economy during	N/A	No Change.	Peak cumulative medium-term moderate beneficial effect, significant at Local level	No Change.
Socio-Economic, Tourism and	Construction Cumulative Effect	Accommodation economy	N/A	No Change.	Peak cumulative medium-term	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Recreation [APP-056]					temporary moderate beneficial effect, significant at Local level	
Socio-Economic, Tourism and Recreation [APP-056]	Construction Cumulative Effect	Tourism and visitor economy	N/A	No Change.	Peak cumulative medium-term temporary moderate adverse, significant at Local level	No Change.
Socio-Economic, Tourism and Recreation [APP-056]	Construction, Decommissioning Cumulative Effect	economic prosperity, and resident and working population income	N/A	No Change.	Peak cumulative medium-term temporary moderate beneficial	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
					effect, significant at Local level	
Socio-Economic, Tourism and Recreation [APP-056]	Construction, Cumulative Effect	Local landscape attractions	N/A	No Change.	Peak cumulative short to medium term temporary moderate adverse, significant at Local level on local	No Change.
Socio-Economic, Tourism and Recreation [APP-056]	Construction Cumulative Effect	Long distance recreation routes	N/A	No Change.	Peak cumulative short to medium term temporary moderate adverse,	No Change.

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
					significant at Local level	
Socio-Economic, Tourism and Recreation [APP-056]	Operation, Decommissioning Cumulative Effect	Energy sector employment	N/A	No Change.	Long-term cumulative moderate adverse, significant at Local level	No Change.
Soils and Agriculture [EN010132/APP/WB6.2.19-057]	Operation	Recovery of organic soil matter under extended fallow.	Moderate beneficial, significant.	None	Moderate beneficial, significant.	No Change
Soils and Agriculture [EN010132/APP/WB6.2.19-057]	Operation	Transfer of arable land to new diversified enterprise.	Moderate beneficial, significant.	None	Moderate beneficial, significant.	No Change
Waste [EN010132/APP/WB6.2.20-058]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Waste [APP-058]	Construction, Operation and Decommissioning Cumulative Effect	Landfill waste handling in Nottinghamshire	N/A	No Change.	Moderate or large adverse effect.	No Change.
Other Environmental Matters: Human Health [EN010132/APP/WB6.2.21-059]	Construction	Access to employment within the Local Impact Area.	Moderate beneficial, Significant.	None	Moderate beneficial, Significant.	No Change
Other Environmental Matters: Human Health [EN010132/APP/WB6.2.21-059]	Construction	Access to education within the Local Impact Area.	Moderate beneficial, Significant.	None	Moderate beneficial, Significant.	No Change
Other Environmental Matters:	Construction	Construction traffic impacts and short-term temporary closure	Moderate Adverse, Significant.	Any crossing or traffic conflict points will be overseen by	Moderate Adverse, Significant.	No Change

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
Human Health [EN010132/APP/ WB6.2.21-059]		of the Trent Valley Way, and National Byways long distance recreational routes.		<p>spotters or banksmen for HGVs.</p> <p>Diversions to routes will be appropriately signed, and the duration and length of diversions will be optimised to minimise impacts on accessibility and desirability.</p> <p>Other measures include: speeds to be limited to 10mph, drivers to give way to PRow users, any</p>		

ES Chapter	Phase of Development	Description of effect	Significance of potential effect prior to mitigation	Additional mitigation	Significance of residual effect	Any Changes to the significant effects due to a 60-year operational lifetime
				damage to PRowS etc.		
Other Environmental Matters: Human Health [APP-059]	Construction, Operation and Decommissioning Cumulative Effect	access to employment and education	N/A	No Change.	Cumulative major-moderate beneficial effect	No Change.
Other Environmental Matters: Human Health [APP-059]	Construction, Operation and Decommissioning Cumulative Effect	long distance recreation routes	N/A	No Change.	Peak cumulative moderate adverse effect	No Change.
Other Environmental Matters: Major Accidents and Disasters [EN010132/APP/WB6.2.21-059]	No significant residual effects are predicted during construction, operation and decommissioning of the Scheme					No Change



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~~November 2023~~

[January 2024](#)