



Lime Down

Solar Park

Environmental Statement

Volume 3, Appendix 18-3: Human Health: Summary of Non-Significant Effects

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Appendix 16-3: Socio-Economics, Tourism and Recreation Summary of Non-Significant Effects

1.1 Overview

- 1.1.1 This appendix provides a summary of the non-significant residual effects that are described in **ES Volume 1, Chapter 18: Human Health [EN010168/APP/6.1]**.
- 1.1.2 Embedded and additional mitigation and enhancement measures are secured through the following documents, each secured by requirement in the **draft Development Consent Order (DCO) [EN010168/APP/3.1]**:
- **Design Principles and Parameters (DPP) [EN010168/APP/7.4];**
 - **Outline Construction Environmental Management Plan [EN010168/APP/7.12];**
 - **Outline Operational Environmental Management Plan [EN010168/APP/7.13];**
 - **Outline Decommissioning Strategy [EN010168/APP/7.14];**
 - **Outline Public Rights of Way Management Plan [EN010168/APP/7.17];**
 - **Outline Landscape and Ecological Management Plan [EN010168/APP/7.18];**
 - **Outline Skills Supply Chain and Employment Plan [EN010168/APP/7.20]; and**
 - **Outline Construction Traffic Management Plan [EN010168/APP/7.22].**

1.2 Summary of Non-significant Effects

Table 1: Summary of Non-significant Effects

Receptor	Description of Impact	Sensitivity of Receptor	Magnitude of Impact	Embedded Mitigation	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
Construction Phase							
Housing	Changes to quality of life due to access to suitable housing and temporary accommodation	Medium	Negligible – negative	Construction contractors to find lowest-impact locations for accommodating construction workers.	Medium-term temporary minor/negligible adverse	None required.	Medium-term temporary minor/negligible adverse
Open Space, Leisure and Play	Change to levels of physical activity, levels of mental benefit from activity, and levels of enjoyment of leisure and play	Low	Low – negative	Embedded design measures to remove Solar PV Site areas and offset from PRowWs and highways. Use of construction traffic management to control HGV routing and numbers.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
Transport Modes, Access and Connections	Changes to access to public transport, ease of access to and from services	Medium	Negligible – negative	Embedded transport management measures to control HGV movement frequency and routing.	Medium-term temporary negligible adverse	None required.	Medium-term temporary negligible adverse
	Changes to social connectivity, contributing to perceptions of road safety and isolation	Medium	Low – negative	Embedded transport management measures to control HGV movement frequency and routing.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
Community Identity, Culture, Resilience and Influence	Change to sense of community identity, culture, and sense of place	Low Medium	Low – negative	Embedded design measures to remove Solar PV Site areas and offset from PRowWs and highways, and location of construction compounds away from the most sensitive receptors.	Medium- to long-term temporary minor adverse	None required.	Medium- to long-term temporary minor adverse
	Changes to sense of control or feeling of inclusion in controlling of environment and surroundings	Medium	Low – negative	Engagement with interested parties, local interest groups, and individual members of the public upon request who are most directly affected by the Scheme, and maintaining an open line of contact to the Applicant team during the application process and post-consent; provide a Community Liaison Manager during construction.	Medium- to long-term temporary minor adverse	None required.	Medium- to long-term temporary minor adverse
Education and Training	Changes to availability, quality, and relevance of education and training, and secondary changes to quality of life as a result of level of education	Medium	Low – positive	Promotion of local education and skills uplifting, and apprenticeship and training schemes.	Medium-term temporary minor beneficial	None required.	Medium-term temporary minor beneficial
Employment and Income	Changes to availability of employment and income, and secondary changes to quality of life as a result of level of income	Low	Negligible – positive	Investment in local recruitment and procurement to increase proportion of construction workforce from within the Wider Baseline Study Area.	Medium-term temporary negligible beneficial	None required.	Medium-term temporary negligible beneficial
Air Quality	Changes to air quality, and associated risks of increased respiratory diseases	Medium	Up to low – negative	Embedded dust management and vehicular emission controls.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
Water Quality or Availability	Changes to flood risk, and changes to water quality for drinking and bathing	Medium	Low – negative	Embedded and additional measures to prevent flooding and water quality impacts to onsite and offsite receptors.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse

Receptor	Description of Impact	Sensitivity of Receptor	Magnitude of Impact	Embedded Mitigation	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
Land Quality	Risks of direct contact, ingestion, or inhalation of contaminants, injury from unexploded ordnance, and changes to safety of groundwater for potable use	Medium	Low – negative (workers)	Embedded standard good working practices including health and safety protocols, Discovery Strategy, Horizontal Directional Drilling (HDD), monitoring and containment of potential contaminants. Additional Unexploded Ordinance (UXO), radon, and unstable ground mitigation measures.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
			Low – negative (population)		Long-term minor adverse		Long-term minor adverse
Noise and Vibration	Changes to sensory environment due to noise and vibration, and associate decrease in amenity and mental wellbeing	Low (overall)	Negligible – negative	Embedded noise control measures for construction works, equipment, and offsetting from sensitive receptors. Time limits on noisy work and provisions to minimise construction vibrations.	Medium-term temporary negligible adverse	None required.	Medium-term temporary negligible adverse
		High (residential)			Short- to medium-term temporary minor/negligible adverse		Short- to medium-term temporary minor/negligible adverse
Health and Social Care Services	Changes to the level of access to primary and emergency healthcare	Medium	Low – negative (peak)	Investment in local recruitment and procurement to increase proportion of construction workforce from within the Study Area.	Medium-term temporary minor adverse	Direct construction workers to find and register with GPs across the Wider Baseline Study Area in reasonable proximity to their temporary or permanent accommodation and where such GP surgeries have reasonable capacity to take on additional patients.	Medium-term temporary minor/negligible adverse
	Changes to access to social care services for existing service users, and secondary impacts on the quality of care provided	Medium	Low – negative (overall)	Engagement with interested parties, local interest groups, and service providers who are most directly affected by the Scheme, and maintaining an open line of contact to the Applicant team during the application process and post-consent; provide a Community Liaison Manager during construction.	Medium-term temporary minor adverse	Directly engaging with social care providers to minimise impacts on residents in full-time care.	Medium-term temporary minor adverse
Operation and Maintenance Phase							
Open Space, Leisure and Play	Change to levels of physical activity, levels of mental benefit from activity, and levels of enjoyment of leisure and play	Low	Negligible – negative	Embedded design measures to remove Solar PV Site areas and offset from PRowS and highways. Embedded landscape screening planting. Provision of permissive paths to enhance PRow network.	Long-term negligible adverse	None required.	Long-term negligible adverse
Community Identity, Culture, Resilience and Influence	Change to sense of community identity, culture, and sense of place	Low (2 km Study Area) Medium (closest communities)	Negligible – negative	Embedded design measures to remove Solar PV Site areas and offset from PRowS and highways. Embedded landscape screening planting.	Long-term minor/negligible adverse	None required.	Long-term minor/negligible adverse
	Changes to sense of control or feeling of inclusion in controlling of environment and surroundings	Medium	Negligible – negative (overall)	Continued engagement and opportunities for dialogue with parties who are most directly affected by the Scheme, and maintaining an open line of	Long-term minor/negligible adverse	None required.	Long-term minor/negligible adverse

Receptor	Description of Impact	Sensitivity of Receptor	Magnitude of Impact	Embedded Mitigation	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
			Low – negative (peak)	contact to the Applicant team during the application process and post-consent; maintain a community contact during the operational lifetime of Scheme.	Short-term temporary minor adverse	None required.	Short-term temporary minor adverse
Education and Training	Changes to availability, quality, and relevance of education and training, and secondary changes to quality of life as a result of level of education	Medium	Negligible – positive	Promotion of local education and skills uplifting, and apprenticeship and training schemes.	Long-term minor/negligible beneficial	None required.	Long-term minor/negligible beneficial
Employment and Income	Changes to availability of employment and income, and secondary changes to quality of life as a result of level of income during the Scheme's operation and maintenance	Low (overall)	Neutral	Investment in local recruitment and procurement to increase proportion of operation and maintenance workforce from within the Wider Baseline Study Area.	Neutral	None required.	Neutral
		Medium (directly impacted)	Negligible – negative		Long-term minor adverse	None required.	Long-term minor adverse
	Changes to availability of employment and income, and secondary changes to quality of life as a result of level of income during the Scheme's peak replacement phase	Low	Negligible – positive		Short-term temporary negligible beneficial	None required.	Short-term temporary negligible beneficial
Climate Change Mitigation and Adaptation	Exposure to flood risk and dangerous weather as a result of climate change, and secondary impacts such as drought and natural disasters	Low	Negligible – positive	Embedded improvement to climate resilience as a result of the Scheme intrinsically reducing the UK Grid carbon intensity	Long-term negligible beneficial	None identified	Long-term negligible beneficial
Air Quality	Changes to air quality, and associated risks of increased respiratory diseases	Medium	Up to low – negative	Embedded dust management and vehicular emission controls. Battery fire safety management protocols.	Short-term temporary minor adverse	None required.	Short-term temporary minor adverse
Water Quality or Availability	Changes to flood risk, and changes to water quality for drinking and bathing	Medium	Low – negative	Embedded and additional measures to prevent flooding and water quality impacts to onsite and offsite receptors.	Long-term minor adverse	None required.	Long-term minor adverse
Land Quality	Risks of direct contact, ingestion, or inhalation of contaminants, injury from unexploded ordnance, and changes to safety of groundwater for potable use	Medium	Low – negative	Embedded standard good working practices including health and safety protocols, Discovery Strategy, HDD, monitoring and containment of potential contaminants. Additional UXO, radon, and unstable ground mitigation measures.	Long-term minor adverse	None required.	Long-term minor adverse
Noise and Vibration	Changes to sensory environment due to noise and vibration, and associate decrease in amenity and mental wellbeing; during the long-term operational phase and short- to medium-term peak replacement phase	Low (overall)	Negligible – negative	Embedded offsets from noise-producing onsite equipment to sensitive receptors.	Long-term negligible adverse	None required.	Long-term negligible adverse
					Short- to medium-term negligible adverse		Short- to medium-term negligible adverse
		High (residential)	Negligible – negative	Embedded offsets from noise-producing onsite equipment to sensitive receptors.	Long-term negligible adverse	None required.	Long-term negligible adverse
					Short- to medium-term minor/negligible adverse		Short- to medium-term minor/negligible adverse

Receptor	Description of Impact	Sensitivity of Receptor	Magnitude of Impact	Embedded Mitigation	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
Wider Societal Infrastructure and Resources	Changes to level of energy available for continued and improved quality of life and to perceptions of local and national contributions to fighting climate change. Changes to access to utilities and safety from biohazards.	Low	Low – positive	None required.	Long-term minor beneficial	None required.	Long-term minor beneficial
Decommissioning Phase							
Housing	Changes to quality of life due to access to suitable housing and temporary accommodation	Medium	Negligible – negative	Decommissioning contractors to find lowest-impact locations for accommodating workers.	Medium-term temporary minor/negligible adverse	None required.	Medium-term temporary minor/negligible adverse
Open Space, Leisure and Play	Change to levels of physical activity, levels of mental benefit from activity, and levels of enjoyment of leisure and play	Medium	Low – negative	Embedded design measures to remove Solar PV Site areas and offset from PRowS and highways. Use of traffic management to control HGV routing and numbers.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
Transport Modes, Access and Connections	Changes to access to public transport, ease of access to and from services	Medium	Negligible – negative	Embedded transport management measures to control HGV movement frequency and routing	Medium-term temporary negligible adverse	None required.	Medium-term temporary negligible adverse
	Changes to social connectivity, contributing to perceptions of road safety and isolation	Medium	Low – negative	Embedded transport management measures to control HGV movement frequency and routing	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
Community Identity, Culture, Resilience and Influence	Change to sense of community identity, culture, and sense of place	Low-Medium	Low – negative	Embedded design measures to remove Solar PV Site areas and offset from PRowS and highways, and location of decommissioning compounds away from the most sensitive receptors.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
	Changes to sense of control or feeling of inclusion in controlling of environment and surroundings	Medium	Negligible – negative	Provision of a Community Liaison Manager ahead of and during decommissioning.	Medium-term temporary minor/negligible adverse	None required.	Medium-term temporary minor/negligible adverse
Education and Training	Changes to availability, quality, and relevance of education and training, and secondary changes to quality of life as a result of level of education	Medium	Low – positive	Promotion of local education and skills uplifting, and apprenticeship and training schemes.	Medium-term temporary minor beneficial	None required.	Medium-term temporary minor beneficial
Employment and Income	Changes to availability of employment and income, and secondary changes to quality of life as a result of level of income	Medium	Negligible – positive	Investment in local recruitment and procurement to increase proportion of decommissioning workforce from within the Wider Baseline Study Area.	Medium-term temporary minor/negligible beneficial	None required.	Medium-term temporary minor/negligible beneficial
Air Quality	Changes to air quality, and associated risks of increased respiratory diseases	Medium	Up to low – negative	Embedded dust management and vehicular emission controls.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
Water Quality or Availability	Changes to flood risk, and changes to water quality for drinking and bathing	Medium	Low – negative	Embedded and additional measures to prevent flooding and water quality impacts to onsite and offsite receptors.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse

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Land Quality	Risks of direct contact, ingestion, or inhalation of contaminants, injury from unexploded ordnance, and changes to safety of groundwater for potable use	Medium	Low – negative (workers)	Embedded standard good working practices including health and safety protocols, Discovery Strategy, HDD, monitoring and containment of potential contaminants. Additional UXO, radon, and unstable ground mitigation measures.	Medium-term temporary minor adverse	None required.	Medium-term temporary minor adverse
			Low – negative (population)		Long-term minor adverse		Long-term minor adverse
Noise and Vibration	Changes to sensory environment due to noise and vibration, and associate decrease in amenity and mental wellbeing	Low (overall)	Negligible – negative	Embedded noise control measures for decommissioning works, equipment, and offsetting from sensitive receptors. Time limits on noisy work and provisions to minimise vibrations.	Medium-term temporary negligible adverse	None required.	Medium-term temporary negligible adverse
		High (residential)			Short- to medium-term temporary minor/negligible adverse		Short- to medium-term temporary minor/negligible adverse
Health and Social Care Services	Changes to the level of access to primary and emergency healthcare	Medium	Low – negative (peak)	Investment in local recruitment and procurement to increase proportion of operation and maintenance workforce from within the Study Area.	Medium-term temporary minor adverse	Direct workers to find and register with GPs across the Wider Baseline Study Area in reasonable proximity to their temporary or permanent accommodation and where such GP surgeries have reasonable capacity to take on additional patients.	Short- to medium-term temporary minor/negligible adverse
	Changes to access to social care services for existing service users, and secondary impacts on the quality of care provided	Medium	Low – negative	Provision of a Community Liaison Manager ahead of and during decommissioning.	Medium-term temporary minor adverse	Directly engaging with social care providers to minimise impacts on residents in full-time care.	Medium-term temporary minor/negligible adverse