THE DROVES
SOLAR FARM

The Droves Solar Farm

Chapter 18: Summary of Effects (Clean)

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18 Summary of Effects

18.1 Introduction

18.1.1 This chapter of the Environmental Statement (ES) presents a summary of the residual significant effects concluded in the technical chapters of the ES (**Chapters 6-16 [APP/6.2]**). These are the residual effects that have been assessed as remaining after the consideration of embedded mitigation measures, and implementation of any additional mitigation measures, and are expected to be experienced as a result of the Scheme.

18.1.2 Each technical chapter contains a detailed consideration of both the beneficial and adverse effects identified as likely to arise from the Scheme. The criteria applied to determine the significance of residual effects are defined within **ES Chapter 2: EIA Process and Methodology [APP/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 purpose of this ES chapter is to provide a focused summary of the residual significant environmental effects that are expected to arise as a result of the Scheme. This chapter does not represent all of the likely significant effects concluded within each of the technical topics, and these can be found within each of the technical chapters of the ES (**Chapters 6-16 [APP/6.2]**).

18.1.4 The summary of residual effects provided in this chapter is based on the information available for the Scheme at the time of writing, intended to inform the examination process on the potential for significant residual environmental effects. The design of the Scheme is not final at this stage and is expected to evolve. The summary of residual significant effects in this ES chapter represents a 'point in-time' and should be considered representative of the final residual effects that the Scheme will incur. The assessments in this ES have been based on a reasonable 'worst-case' scenario, based on the parameters that consent is sought for within the DCO Application. The detailed design of the Scheme, developed post-consent of the DCO, would fit within the assessed parameters, with potential for a reduction in effects to those concluded in the ES. The assessment conclusions in this ES chapter are, therefore, necessarily conservative and may overestimate the impact and significant effects experienced once the Scheme is implemented.

18.1.5 Table 18.1 and Table 18.2 present the residual significant effects resulting from the construction and decommissioning phases, and the operational phase, respectively.

18.1.6 In addition, Table 18.3 presents the residual significant effects resulting from the Scheme, in-combination with the cumulative schemes presented in **ES Appendix 2.4 [APP/6.4]**. The cumulative assessment has been presented in each of the technical chapters of the ES (**Chapters 6-16 [APP/6.2]**).

18.1.7 This document has been updated at Deadline 6 to reflect the updates made to **ES Chapter 14: Socio-Economics [APP/6.2.2]** and **ES Chapter 16: Other Environmental Matters [APP/6.2.2]**. The document references have not been updated from the original submission. Please refer to the **Guide to the Application [APP/1.3.8]** for the list of current versions of documents.

Table 18.1 Residual Significant Effects during the construction and decommissioning phases

Phase of Development	Receptor	Description of Effect	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
Chapter 6: Landscape and Visual [APP/6.2]					
Landscape					
Construction and Decommissioning Phase	D1: Swaffham Heath LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	Not applicable (N/A) as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
	E6 North Pickenham Plateau LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
Visual					

Construction and Decommissioning Phase	VRG1: Central Site Area	Direct visibility, affecting visual amenity of receptors.	Major Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Major Adverse
	VRG2: North-Eastern Site Area	Direct visibility, affecting visual amenity of receptors.	Major-Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Major-Moderate Adverse
	VRG3: Nar Valley Southern Slope and Settlement Edge of South Acre	Partial visibility, affecting visual amenity of receptors.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
	The Peddars Way and Norfolk Coastal Path	Partially screened views, affecting visual amenity of receptor.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
	Rebellion Way Cycle Route	Direct visibility of the Scheme, affecting visual amenity of receptor	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
Chapter 7: Ecology and Biodiversity [APP/6.2]					
No significant residual effects on ecology and biodiversity have been identified during the construction and decommissioning of the Scheme.					
Chapter 8: Cultural Heritage and Archaeology [APP/6.2]					
No significant residual effects on cultural heritage and archaeology have been identified during the construction and decommissioning of the Scheme.					
Chapter 9: Transport and Access [APP/6.2]					

No significant residual effects on transport and access have been identified during the construction and decommissioning of the Scheme.					
Chapter 10: Noise and Vibration [APP/6.2]					
No significant residual effects on noise and vibration have been identified during the construction and decommissioning of the Scheme.					
Chapter 11: Soils and Agriculture [APP/6.2]					
No significant residual effects on soils and agriculture have been identified during the construction and decommissioning of the Scheme.					
Chapter 12: Water Resources [APP/6.2]					
No significant residual effects on water resources have been identified during the construction and decommissioning of the Scheme.					
Chapter 13: Climate Change [APP/6.2]					
No significant residual effects on climate change have been identified during the construction and decommissioning of the Scheme.					
Chapter 14: Socio-Economics [APP/6.2]					
Construction Phase	Provision of education, skills, training and supply chain	Provision of opportunities for upskilling and training, creation of substantial employment opportunities, support for a rage of supply chain opportunities	Major Beneficial	N/A	Major Beneficial
Decommissioning Phase	Provision of education, skills, training and supply chain	Provision of opportunities for upskilling and training, creation of substantial employment	Minor Beneficial	N/A	Moderate Beneficial

		opportunities, support for a rage of supply chain opportunities			
Chapter 15: Human Health [APP/6.2]					
Construction Phase	Construction jobs – Vulnerable Groups	Greater health benefits when individuals move from unemployment into employment reduction is stress, improve financial security and support mental well-being.	Moderate Beneficial	N/A	Moderate Beneficial
	Provision of education, skills, training and supply chain – General Population and Vulnerable Groups	Greater opportunity for residents to upskill and greater employment opportunities in the area	Moderate Beneficial – General Population Major Beneficial – Vulnerable Groups	N/A	Moderate Beneficial – General Population Major Beneficial – Vulnerable Groups
Decommissioning Phase	Decommissioning jobs – Vulnerable Groups	Employment is recognised as a wider determinant of health, particularly when it improves financial stability or reduces prolonged unemployment. However, in this instance, the scale and duration of the employment uplift are not expected to lead to any sustained improvements in population health.	Moderate Beneficial	N/A	Moderate Beneficial

Chapter 16: Other Environmental Matters – Air Quality, Arboriculture, Glint and Glare, Electromagnetic Fields and Telecommunications, Utilities, and Television Receptors and Waste [APP/6.2]
No significant residual effects on other environmental matters have been identified during the construction and decommissioning of the Scheme.

Table 18.2 Residual Significant Effects during the operational phase

Phase of Development	Receptor	Description of Effect	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
Chapter 6: Landscape and Visual [APP/6.2]					
Landscape (Short-Term)					
Operational Phase	D1: Swaffham Heath LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
	E6 North Pickenham Plateau LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
Visual (Short-Term)					

Operational Phase	VRG1: Central Site Area	Direct visibility of the Scheme, affecting visual amenity of receptors.	Major Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Major Adverse
	VRG2: North-Eastern Site Area	Direct visibility of the Scheme, affecting visual amenity of receptors.	Major-Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Major-Moderate Adverse
	VRG3: Nar Valley Southern Slope and Settlement	Partial visibility of the Scheme, affecting visual amenity of receptors.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
	The Peddars Way and Norfolk Coastal Path Over a limited extent only. Within and up to 300m from the Site.	Partially screened views of the Scheme, affecting visual amenity of receptor.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
	Rebellion Way Cycle Route Over a limited extent only. Within the Site.	Direct visibility of the Scheme, affecting visual amenity of receptor.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse

Landscape (Medium-Term)					
Operational Phase	D1: Swaffham Heath LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
	E6 North Pickenham Plateau LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
Visual (Medium-Term)					
Operational Phase	VRG1: Central Site Area	Direct visibility of the Scheme, affecting visual amenity of receptors.	Major-Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Major-Moderate Adverse
	VRG2: North-Eastern Site Area	Direct visibility of the Scheme, affecting visual amenity of receptors.	Major-Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Major-Moderate Adverse

	The Peddars Way and Norfolk Coastal Path Over a limited extent only. Within and up to 300m from the Site	Partially screened views of the Scheme, affecting visual amenity of receptor.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
	Rebellion Way Cycle Route Over a limited extent only. Within the Site	Direct visibility of the Scheme, affecting visual amenity of receptor.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
Landscape (Long-Term)					
Operational Phase	D1: Swaffham Heath LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse
	E6: North Pickenham Plateau LCA Within the Site	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Major-Moderate Adverse	N/A as the effect is assessed within the Site itself, which is being developed. Note that the effect for this receptor is **not significant** outside of the Site extent.	Major-Moderate Adverse

Chapter 7: Ecology and Biodiversity [APP/6.2]					
Operational Phase	Breeding Birds (other species)	Increased habitat opportunities through new native planting and grassland provision and associated habitat management	Moderate/Minor Beneficial	N/A	Moderate/Minor Beneficial
	Wintering Birds (other species)	Increased habitat opportunities through new native planting and grassland provision and associated habitat management	Moderate/Minor Beneficial	N/A	Moderate/Minor Beneficial
	Habitats (Hedgerows and Tree Lines)	Increased habitat opportunities through new native planting and grassland provision and associated habitat management	Minor to Major Beneficial	N/A	Minor to Major Beneficial
	Amphibian (GCN)	Operation of solar scheme for power generation, grid connection and associated maintenance activities.	Minor Beneficial	N/A	Minor Beneficial
Chapter 8: Cultural Heritage and Archaeology [APP/6.2]					
No significant residual effects on cultural heritage and archaeology have been identified during the operation of the Scheme.					
Chapter 9: Transport and Access [APP/6.2]					
No significant residual effects on transport and access have been identified during the operation of the Scheme.					

Chapter 10: Noise and Vibration [APP/6.2]					
No significant residual effects on noise and vibration have been identified during the operation of the Scheme.					
Chapter 11: Soils and Agriculture [APP/6.2]					
No significant residual effects on soils and agriculture have been identified during the operation of the Scheme.					
Chapter 12: Water Resources [APP/6.2]					
No significant residual effects on water resources have been identified during the operation of the Scheme.					
Chapter 13: Climate Change [APP/6.2]					
Operational Phase	Global Climate	Offset of emissions in comparison to a 'without scheme' baseline where energy may be produced by other more highly emitting methods.	Significant Beneficial	Reduce waste, maximise reuse and recycling, and reduce emissions from operations. Measures detailed within the oCEMP **[APP/7.6]** and oOEMP **[APP/7.8]**.	Significant Beneficial
Chapter 14: Socio-Economics [APP/6.2]					
Operational Phase	Provision of education, skills and training	Limited operational employment opportunities and support for long-term skills development.	Moderate Beneficial	N/A	Moderate Beneficial
Chapter 15: Human Health [APP/6.2]					

Operation	Provision of education, skills and training – Vulnerable Groups	Positive mental health impact as a result of access to education and training through offering a sense of security, purpose, and personal development. Awareness of future employment opportunities can contribute to improved confidence and optimism about the future.	Moderate Beneficial	N/A	Moderate Beneficial
	Physical activity – Vulnerable Groups	Provision of additional and improved PRoW to encourage greater levels of walking and physical activity associated with improved physical health outcomes including reduced risk of cardiovascular disease, lower blood pressure, improved weight management, and enhanced musculoskeletal health	Moderate Beneficial	N/A	Moderate Beneficial
Chapter 16: Other Environmental Matters – Air Quality, Arboriculture, Glint and Glare, Electromagnetic Fields and Telecommunications, Utilities and Television Receptors and Waste [APP/6.2]					
No significant residual effects on other environmental matters have been identified during the operation of the Scheme.					

Table 18.3 Residual Significant Cumulative Effects during the construction, operational, and decommissioning phases

Phase of Development	Receptor	Description of Effect	Significance of Effect (with embedded mitigation)	Additional Mitigation Measures	Residual Effect (with additional mitigation)
Chapter 6: Landscape and Visual [APP/6.2]					
Landscape					
Construction and Decommissioning Phase	E6 North Pickenham Plateau LCA	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
Operational Phase	E6 North Pickenham Plateau LCA	Total or major alteration to key elements, features, qualities or characteristics, such that post-development the baseline will be fundamentally changed.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse
Visual					
Construction and Decommissioning Phase	VRG4: Great Palgrave and Little Palgrave	Partial visibility of the Scheme, affecting visual amenity of for users of PRoW Sporle with Palgrave BR5.	Moderate Adverse	N/A as all mitigation, insofar as reasonably possible, has been embedded into the Scheme.	Moderate Adverse

Chapter 7: Ecology and Biodiversity [APP/6.2]					
No significant cumulative effects on ecology and biodiversity have been identified.					
Chapter 8: Cultural Heritage and Archaeology [APP/6.2]					
No significant cumulative effects on cultural heritage and archaeology have been identified.					
Chapter 9: Transport and Access [APP/6.2]					
No significant cumulative effects on transport and access have been identified.					
Chapter 10: Noise and Vibration [APP/6.2]					
Operational Phase	The Off Barn	Operational noise from Battery Energy Storage System, National Grid Substation, Customer Substation and Solar Conversion Units.	Moderate Adverse	Conclusion based on preliminary cumulative information, with additional mitigation to be explored, if required, in collaboration with High Grove Solar Farm.	Moderate Adverse
Chapter 11: Soils and Agriculture [APP/6.2]					
Operational Phase	BMV Land	Permanent land loss of BMV quality from all the developments to exceed 20ha	Moderate Adverse	None, due to requirement for permanent infrastructure.	Moderate Adverse

Chapter 12: Water Resources [APP/6.2]					
No significant cumulative effects on water resources have been identified.					
Chapter 13: Climate Change [APP/6.2]					
No significant cumulative effects on climate change have been identified.					
Chapter 14: Socio-Economics [APP/6.2]					
Construction and Decommissioning Phase	Provision of education, skills and training	Provision of construction and decommissioning employment opportunities and support for long-term skills development.	Major Beneficial	N/A	Major Beneficial
Operational Phase	Provision of education, skills and training	Provision of operational employment opportunities and support for long-term skills development.	Moderate Beneficial	N/A	Moderate Beneficial
Operational Phase	Effect on land uses	Loss of agricultural land and impact to farming businesses.	Moderate Adverse	N/A	Moderate Adverse
Chapter 15: Human Health [APP/6.2]					
Construction Phase	Provision of education, skills and training – General Population	Positive mental health impact as a result of access to education and training through offering a sense of security, purpose, and personal development. Awareness of future employment	Major Beneficial	N/A	Major Beneficial

		opportunities can contribute to improved confidence and optimism about the future.			
Chapter 16: Other Environmental Matters – Waste only [APP/6.2.2]					
Operational Phase	Hazardous waste landfill capacity	Replacement activities for the Scheme and cumulative schemes generating Waste, Electrical and Electronic Equipment (WEEE) and waste batteries anticipated to go to landfill following treatment.	Moderate or Large Adverse	Operational Waste Management Strategy to ensure hazardous waste handling capabilities are assessed based on up-to-date information at the time of drafting prior to peak replacement works. Where a significant cumulative effect on hazardous waste handling facilities from replacement activities across multiple NSIPs are assessed as likely to occur, a coordinated approach between site operators of those relevant NSIPs should be secured ahead of the commencement of those replacement activities.	Moderate or Large Adverse
Decommissioning Phase	Non-hazardous waste landfill capacity	Decommissioning of temporary components of the Scheme and cumulative schemes generating non-	Moderate Adverse	Decommissioning Waste Management Strategy must ensure that both non-hazardous waste handling capabilities are	Moderate Adverse

		hazardous waste anticipated to go to landfill.		assessed based on up-to-date information at the time of drafting prior to decommissioning works being undertaken. Where significant cumulative effects on non-hazardous waste handling facilities and landfill void capacity from decommissioning of multiple NSIPs are assessed as likely to occur, a coordinated approach between site operators of those relevant NSIPs should be secured ahead of the commencement of decommissioning activities.	
Decommissioning Phase	Hazardous waste landfill capacity	Decommissioning of temporary components of the Scheme and cumulative schemes generating hazardous waste anticipated to go to landfill.	Moderate or Large Adverse	Decommissioning Waste Management Strategy must ensure that hazardous waste handling capabilities are assessed based on up-to-date information at the time of drafting prior to decommissioning works being undertaken. Where significant cumulative effects hazardous waste handling facilities and landfill void capacity	Moderate or Large Adverse

				from decommissioning of multiple NSIPs are assessed as likely to occur, a coordinated approach between site operators of those relevant NSIPs should be secured ahead of the commencement of decommissioning activities.	
Chapter 16: Other Environmental Matters – Air Quality, Arboriculture, Glint and Glare, Electromagnetic Fields and Telecommunications, Utilities and Television Receptors [APP/6.2]					
No significant cumulative effects on other environmental matters have been identified.					

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