



# Dean Moor Solar Farm

## Environmental Statement Appendix 11.2 – Consolidated Tables of Significance

on behalf of **FVS Dean Moor Limited**

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July 2025

Prepared by: Stantec UK Ltd

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Firma Energy



**DEAN MOOR SOLAR FARM  
CONSOLIDATED TABLES OF SIGNIFICANCE  
PLANNING INSPECTORATE REFERENCE EN010155  
PREPARED ON BEHALF OF FVS DEAN MOOR LIMITED**

The Infrastructure Planning (Applications: Prescribed Forms  
and Procedure) Regulations 2009, Regulation 5(2)(a)

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# 1 Consolidated Tables of Significance

Table 1.1: Consolidated Table of Significance – Construction Phase

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Cultural Heritage										
Stone Circle and Cairn	<b>Short-term</b> Construction activities associated with the Proposed Development have the potential for indirect impacts on the setting of the receptor.	<b>Moderate Adverse</b>	Construction Environmental Management Plan ('CEMP') and Construction Traffic Management Plan ('CTMP') to be substantially in accordance with the measures set out in the Outline Construction Environmental Management Plan ('OCEMP') and Outline Construction Traffic Management Plan ('OCTMP').			X				<b>Moderate Adverse (a significant effect)</b> Less than substantial harm (National Planning Policy Framework ('NPPF')/ National Policy Statement ('NPS') terms)
Wythemoor Sough	<b>Short-term</b> Construction activities associated with the Proposed Development have the potential for indirect impacts on the setting of the receptor.	<b>Moderate Adverse</b>	CEMP and CTMP to be substantially in accordance with the measures set out in the OCEMP and OCTMP.			X				<b>Moderate Adverse (a significant effect)</b> Less than substantial harm (NPPF/ NPS terms)

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
The English Lake District World Heritage Site ('WHS')	<b>'No Change'</b> Construction activities associated with the Proposed Development do not have the potential for indirect impacts on the setting of this receptor	Minor Adverse	CEMP and CTMP to be substantially in accordance with the measures set out in the OCEMP and OCTMP.	X						Minor Adverse Less than substantial harm (NPPF/ NPS terms)
Potential Below Ground Heritage Receptors (Archaeological Remains)	<b>Permanent</b> Potential physical impact during construction phase on surviving unknown non-designated below ground heritage receptors (archaeological remains)	<b>Major Adverse</b>	Archaeological fieldwork and mitigation detailed in the Archaeological Mitigation Strategy ('AMS') (Appendix 6.3)						X	<b>Moderate Beneficial (a significant effect)</b> Less than substantial harm (NPPF/ NPS terms)
<b>Landscape and Visual</b>										
Effects on Landscape Designations / Character	Reversible, short-term	No change – <b>Moderate adverse (Significant)</b>	Implementation of best practice measures to be substantially in accordance with the construction phase management plans including the OCEMP, OCTMP, and Outline Soil Management Plan ('OSMP').	X	X		X	X		No change – <b>Moderate adverse (Significant)</b>
Effects on Landscape Features		Negligible adverse (Not significant)							X	Negligible adverse ( <b>Significant</b> )

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Effects on Visual Receptors		Negligible – <b>Major to Substantial adverse (Significant)</b>							X	Negligible – <b>Major to Substantial adverse (Significant)</b>
<b>Biodiversity</b>										
Effects on Statutory Designated Areas	Short-term, negative effects on the River Derwent and Bassenthwaite Lake Special Area of Conservation ('SAC') and the River Derwent and Tributaries Site of Special Scientific Interest ('SSSI'). No effects on Solway Firth Special Protection Area ('SPA').	Local Level	The implementation of mitigation measures set out in the OCEMP, in particular the implementation of pollution prevention and controls.  The risks to statutory areas and the importance of pollution control, as outlined in the OCEMP, will be confirmed to the Principal Contractor.  The Ecological Clerk of Works ('ECoW') will ensure compliance with measures set out in the CEMP.	X	X					No significant residual effects
Effects on Non-Statutory Designated Areas	Short-term, negative effects on a small part of Dean Moor County Wildlife Site ('CWS'). No impacts to the Special Roadside Verge ('SRV') MP K3.	Local Level	Implementation of the CEMP will ensure that the most sensitive habitats, including purple moor grass plant communities are not impacted by traffic, effected by pollution, dust, or noise.  The ECoW will ensure compliance with measures set out in the CEMP.					X		<b>Significant negative effect at the Local Level</b>

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Effects on Habitats	Short-term, negative effects	Site Level	CEMP to be substantially in accordance with the measures outlined in the OCEMP.  The ECoW will ensure compliance with measures set out in the CEMP.					X		No significant residual effects.
Effects on Bats	Short-term negative effects	Site Level	A species protection plan within the CEMP will set out how bats will be protected from mortality, disturbance, and habitat fragmentation during construction.							No significant residual effects.
Effects on Otters	Short-term negative effects	Site Level	Pre-construction surveys will be carried out.  A species protection plan within the CEMP will set out how otters will be protected from mortality, disturbance, and habitat fragmentation during construction.  Mammal gaps in perimeter fences will facilitate otter movement across the Site and into surrounding habitats.						X	No significant residual effects.
Effects on Breeding birds	Short-term negative effects	Site Level	CEMP to be substantially in accordance with the measures outlined in the OCEMP.  Species which will be impacted by construction works will be protected by sensitive working practices or pre-						X	No significant residual effects.

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
			inspection vegetation clearance by the ECoW.  A species protection plan within the CEMP will set out how breeding birds will be protected from mortality, disturbance, and habitat fragmentation during construction.  Suitable buffers and/or protections for valuable habitats such as hedgerow and watercourses.							
Effects on Wintering Birds	Short-term negative effects  Site is not functionally linked to Solway Firth SPA so no effects on qualifying species.	Site Level	CEMP to be substantially in accordance with the measures outlined in the OCEMP.  A species protection plan within the CEMP will set out how wintering birds will be protected from mortality, disturbance, and habitat fragmentation during construction.						X	No significant residual effects.
<b>Construction Phase (Climate Change Mitigation)</b>										
Construction Emissions	Permanent	Minor Adverse (Not Significant)	A CEMP and CTMP to be substantially in accordance with the measures in the OCEMP and OCTMP	X						Minor Adverse (Not Significant)



Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Ground Conditions										
Human Health exposure to potential contamination through ground disturbance	Temporary	Moderate Adverse	Design of the Proposed Development to be informed by ground investigation and interpretative assessment.  Where necessary remediation / mitigation measures will be included as part of the design to break construction phase pollutant linkages.  The CEMP to be substantially in accordance with the measures set out in the OCEMP. The CEMP will provide construction phase controls and following all appropriate legislative requirements during the construction phase.							Negligible
Mobilisation of existing potential contamination through ground disturbance impacting upon surface water	Temporary	Moderate Adverse					X			Negligible
Mobilisation of existing potential contamination through ground disturbance impacting upon groundwater	Temporary	Minor Adverse					X			Negligible
Buildings and Structures exposure to potential contamination	Temporary	Negligible							X	Negligible

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Loss of soil resource due to ground disturbance	Permanent	<b>Moderate Adverse</b>	OSMP (Appendix 5.3) sets out how soils are to be managed. The Soil Management Plan ('SMP') will be substantially in accordance with the OSMP.						X	Negligible

**Table 1.2: Amalgamated Table of Significance – Operational Phase**

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Cultural Heritage										
Stone Circle and Cairn	<b>Long-term (temporary)</b> Located within the Site and potential for the Proposed Development to affect its value through development within its setting. Embedded mitigation (Figure 3.4) considered.	<b>Moderate Adverse</b>	Maintenance and management of comprehensive landscape mitigation strategy implemented substantially in accordance with Outline Landscape and Ecological Management Plan ('OLEMP'). Operational measures substantially in accordance with Outline Operational Management Plan ('OOMP').			X				<b>Moderate Adverse (a significant effect)</b> Less than substantial harm (NPPF/ NPS terms)
Wythemoor Sough	<b>Long-term (temporary)</b> Located within close proximity to the Site and potential for the Proposed Development to affect its value through development within its setting.	<b>Moderate Adverse</b>	Maintenance and management of comprehensive landscape mitigation strategy implemented substantially in accordance with OLEMP. Operational measures substantially in accordance with OOMP.			X				<b>Moderate Adverse (a significant effect)</b> Less than substantial harm (NPPF/ NPS terms)
The English Lake District WHS	<b>Long-term (temporary)</b> Given the substantial distance from the Site to the receptor and intervening topography and landscaping, it is considered that there will be no direct impact to either the receptor itself	Minor Adverse	Maintenance and management of comprehensive landscape mitigation strategy implemented substantially in accordance with OLEMP. Operational measures substantially in accordance with OOMP.	X						Minor Adverse Less than substantial harm (NPPF/ NPS terms)

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
	or a significant indirect effect on its setting.									
Potential Below Ground Heritage Receptors (Archaeological Remains)	<b>'No Change'</b> During the operational phase. Archaeological remains will have been mitigated within construction phase.	'No Change'	Maintenance and management of comprehensive landscape mitigation strategy implemented substantially in accordance with OLEMP. Operational measures substantially in accordance with OOMP.						X	'No Change' Less than substantial harm (NPPF/ NPS terms)
<b>Landscape and Visual</b>										
Effects on Landscape Designations / Character	Reversible to permanent, medium to long term	No change – <b>Moderate adverse (Significant)</b>	Maintenance and management of comprehensive landscape mitigation strategy implemented substantially in accordance with OLEMP.	X	X		X	X		No change – Negligible adverse (Not significant)
Effects on Landscape Features		Negligible adverse (Not significant)							X	Negligible adverse – <b>Moderate beneficial (Significant)</b>
Effects on Visual Receptors		Negligible – <b>Major adverse (Significant)</b>							X	Negligible – <b>Major adverse (Significant)</b>

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Biodiversity										
Effects on Statutory Designated Areas	No effect	N/A	No additional mitigation required	X	X					No significant residual effect
Effects on Non-Statutory Designated Areas	Long-term positive effect on Dean Moor CWS No effect on SRV MP K3	Local Level	The OLEMP sets out how the County Wildlife Site ('CWS') will be enhanced and managed by improved grassland management and seeding. It includes an Outline Grazing Management Plan ('OGMP') which sets out a grazing density and regime to promote sward diversity in CWS. The Landscape and Ecological Management Plan ('LEMP') will be substantially in accordance with the OLEMP.					X		Significant positive effect at the Local Level
Effects on Habitats	Long-term positive effect	Site Level	The LEMP, including Grazing Management Plan ('GMP') will be substantially in accordance with the OLEMP so that livestock access across the Site is controlled.  Details of all habitat management interventions, including biosecurity measures, are included in the LEMP, which will be substantially in accordance with the OLEMP.  The Landscape Strategy Plan (Figure 7.6.1-7.6.5) also indicates how landscape features will be improved and promote green infrastructure on-Site and connect to wider green networks. This will be implemented as a Landscape and Ecological Plan ('LEP').							No significant residual effects.

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Effects on Bats	No effect	Site Level	<p>Appropriate timing of maintenance works will avoid impacts to species such as bats. If nighttime works are required, then lighting will be temporary and adopt ecologically sensitive lighting relying on low intensity bulbs and adopting cowls or hood to minimise light spill and be switch or motion activated.</p> <p>The OLEMP details habitat enhancements and management which have been designed to support species which occupy the Site, and which may commute across it, both along hedgerows and watercourses. The LEMP will be substantially in accordance with the measures set out in the OLEMP.</p>							No significant residual effects
Effects on Otters	Long-term positive effect	Site Level	<p>Any operational works will consider the presence of protected species, such as otter which may occupy the Site given habitat improvements to hedgerows, and other habitats. Protection of solar PV arrays and associated infrastructure which crosses watercourses will incorporate measures to allow otters to move unimpeded.</p> <p>The OLEMP details habitat enhancements and management which have been designed to support species which occupy the Site, and which may commute across it, both along hedgerows and watercourses. The LEMP will be substantially in accordance with the measures set out in the OLEMP.</p>						X	No significant residual effects

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Effects on Breeding birds	Long-term positive effect,	Site Level	Habitat enhancement, including management of margins are set out in the OLEMP, will have a positive effect on a wide diversity of species. The LEMP will be substantially in accordance with the measures set out in the OLEMP.  Habitat enhancements and suitable management of grassland, in particular, Dean Moor CWS, will promote nesting opportunities for a range of species including those which rely on open habitats with reduced grazing disturbance.						X	No significant residual effects
Effects on Wintering Birds	Long-term positive effect Site is not functionally linked to Solway Firth SPA so no effects on qualifying species.	Site Level	The LEMP will be substantially in accordance with the measures set out in the OLEMP.						X	No significant residual effects
<b>Climate Change Mitigation</b>										
Effect of renewable energy generation on climate change mitigation.	Permanent	<b>Major Beneficial (Significant)</b>	N/A	X						<b>Major Beneficial (local level) (Significant)</b>  Minor Beneficial (national level) (Not Significant)

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Climate Change Resilience										
Effects of climate change on infrastructure	Permanent	Minor Adverse – Negligible (Not Significant)	Design specifications of infrastructure including solar arrays, Grid Connection Infrastructure, cabling, etc. will be confirmed through DCO Requirements.  Drainage design to be secured by a DCO Requirement.	X						Negligible (Not Significant)
Effects of climate change on future site users	Permanent	Minor Adverse – Negligible (Not Significant)	Future Site users to adhere to health & safety procedures whilst working on-Site. An Operational Management Plan to be secured by a DCO Requirement and be substantially in accordance with the OOMP.	X						Negligible (Not Significant)
Effects of climate change on the natural environment (Ecology, Landscaping and Planting)	Permanent	Moderate-Minor Adverse (Significant)	Implementation of a LEMP and a GMP, to be substantially in accordance with the measures outlined in the OLEMP and OGMP.  Flood design specifications to be secured by DCO Requirement.	X						Negligible-Minor Adverse (Not Significant)
Effects of climate change on flood risk	Permanent	Minor Adverse – Negligible (Not Significant)	Detailed drainage design to be secured by a DCO Requirement. A GMP to be secured by DCO Requirement.	X						Negligible (Not Significant)
Ground Conditions										



Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Human Health exposure to potential contamination through ground disturbance	Temporary	<b>Moderate Adverse</b>	The CEMP to be substantially in accordance with the measures in the OCEMP, to define what materials can / cannot be re-used and require that materials brought to the Site are suitable for use from the perspective of human health during the operational phase.							Negligible
Mobilisation of existing potential contamination through ground disturbance impacting upon surface water	Temporary	Negligible	Whilst it is not anticipated that additional mitigation will be required for these receptors during the Operational phase, any additional mitigation measures found to be necessary following ground investigation and subsequent assessment will be included.				X			Negligible
Mobilisation of existing potential contamination through ground disturbance impacting upon groundwater	Temporary	Minor Adverse					X			Negligible
Buildings and Structures exposure to potential contamination	Temporary	<b>Moderate Adverse</b>	Design, informed by ground investigation, such that the proposed structures are suitably located, geotechnically designed and constructed of appropriate materials.						X	Negligible
Loss of soil resource due to ground disturbance	Permanent	<b>Moderate Adverse</b>	Adoption of additional mitigation measures at the construction phase will safeguard soil (resource) during the operational phase.						X	Negligible

**Table 1.3: Consolidated Table of Significance – Decommissioning Phase**

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Decommissioning Phase										
Stone Circle and Cairn	<b>Short-term</b> Decommissioning activities associated with the Proposed Development have the potential for indirect impacts on the setting of the receptor (from decommissioning activities).	Minor Adverse	Decommissioning Management Plan ('DMP') suite will be implemented, to be substantially in accordance with measures outlined in the Framework Decommissioning Management Plan ('FDMP').			X				Minor Adverse Less than substantial harm (NPPF/ NPS terms)
Wythemoor Sough	<b>Short-term</b> Decommissioning activities associated with the Proposed Development have the potential for indirect impacts on the setting of the receptor (from decommissioning activities).	Minor Adverse	DMP suite will be implemented, to be substantially in accordance with measures outlined in the FDMP.			X				Minor Adverse Less than substantial harm (NPPF/ NPS terms)
The English Lake District WHS	<b>'No Change'</b> Decommissioning activities associated with the Proposed Development do not have the potential for indirect impacts on the setting of the receptor due to the nature of the impacts and distance to the receptor.	Minor Adverse	DMP suite will be implemented, to be substantially in accordance with measures outlined in the FDMP.	X						Minor Adverse Less than substantial harm (NPPF/ NPS terms)
Potential Below Ground Heritage Receptors	<b>'No Change'</b> During decommissioning phase. Archaeological remains will have	'No Change'	DMP suite will be implemented, to be substantially in accordance						X	'No Change' Less than substantial

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
(Archaeological Remains)	been mitigated within construction phase.		with measures outlined in the FDMP.							harm (NPPF/ NPS terms)
Landscape and Visual										
Effects on Landscape Designations / Character	Reversible, short-term	No change – <b>Moderate adverse (Significant)</b>	Implementation of best practice measures in accordance with a DMP document suite to be provided by a DCO Requirement to be substantially in accordance with the FDMP.	X	X		X	X		No change – <b>Moderate adverse (Significant)</b>
Effects on Landscape Features		Negligible adverse (Not significant)						X	Negligible adverse (Not significant)	
Effects on Visual Receptors		Negligible – <b>Major adverse (Significant)</b>						X	Negligible – <b>Major adverse (Significant)</b>	
Biodiversity										
Effects on Statutory Designated Areas	Short-term negative effects	Local Level	<p>Prior to decommissioning, the DEMP will be followed and updated as necessary to prevent impacts to Statutory Designated Areas.</p> <p>Implementation of a DEMP, which will be substantially in accordance with the FDMP. The DEMP will set out how decommissioning works will reduce impacts on statutory designated areas which may be impacted by pollution; and how disturbance and habitat fragmentation will be avoided.</p>	X	X					No significant residual effects

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Effects on Non-Statutory Designated Areas	Short-term negative effects on Dean Moor CWS. No effects on SRV MP K3.	Local Level	<p>Prior to decommissioning commencing, the DEMP will be followed and updated as necessary to prevent impacts to Non-Statutory Designated Areas.</p> <p>Implementation of a DEMP, which will be substantially in accordance with the FDMP. The DEMP will set out how decommissioning works will reduce impacts on non-statutory areas which may be impacted by pollution; and how disturbance and habitat fragmentation will be avoided.</p>					X		No significant residual effects
Effects on Habitats	Short-term negative effects	Site Level	<p>Prior to decommissioning commencing, the DEMP will be followed and updated as necessary to prevent impacts to Habitats.</p> <p>Implementation of a DEMP, which will be substantially in accordance with the FDMP. The DEMP will set out how decommissioning works will reduce impacts to habitats and species; which may be impacted by pollution; and how disturbance and habitat fragmentation will be avoided.</p>							No significant residual effects

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
Effects on Species	Short-term negative effects	Site Level	Implementation of a DEMP, which will be substantially in accordance with the FDMP. The DEMP will be updated as necessary to prevent impacts to Species. The DEMP will set out how decommissioning works will reduce impacts to habitats and species which may be impacted by pollution; and how disturbance and habitat fragmentation will be avoided.						X	No significant residual effects
Climate Change – No decommissioning effects identified (scoped out of the assessment)										
<b>Ground Conditions</b>										
Human Health exposure to potential contamination through ground disturbance	Temporary	<b>Moderate Adverse</b>	A DMP suite to provide decommissioning phase controls and following all appropriate legislative requirements during the construction phase, this will be substantially in accordance with the FDMP.							Negligible
Mobilisation of existing potential contamination through ground disturbance impacting upon surface water	Temporary	Minor Adverse					X			Negligible
Mobilisation of existing potential contamination	Temporary	<b>Moderate Adverse</b>					X			Negligible

Potential Effect	Nature of Effect	Likely Significant Effect (including embedded mitigation)	Secondary / Tertiary Additional Mitigation	Geographical Importance						Residual Effect
				I	UK	E	R	UA	L	
through ground disturbance impacting upon groundwater										
Buildings and Structures exposure to potential contamination	Temporary	Negligible							X	Negligible
Loss of soil resource due to ground disturbance	Permanent	<b>Major Adverse</b>	Preparation of Decommissioning Phase Soil Management Plan ('DSMP'), to be substantially in accordance with the FDMP, which sets out how soils are to be managed during the decommissioning phase.						X	Negligible