



Preliminary Environmental Information Report

Appendix 7D: Impact Assessment

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Future Energy Llanwern Limited

Contents

Impact assessment.....	1
1.1 Introduction	1

Impact assessment

1.1 Introduction

- 1.1.1 The impact assessment relevant to **Chapter 7: Cultural Heritage and Archaeology** is presented in **Table 7D-1** below.

Table 7D-1 Impact Assessment

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
Designated historic assets						
MM127	Wilcrick Hill Camp, scheduled monument	High	Alteration to the wider visible historic landscape. Nonetheless, the immediate setting of the scheduled monument has been bisected by the 1850s railway, 1950s M4 motorway, steelworks, and the urban development of Magor. Wilcrick Hill Camp is located 2.4km north-east of the nearest Site boundary. The Proposed Development will not have a discernible or material change to the character and value of this historic asset.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible adverse <u>Operation</u> Negligible adverse	<u>Construction</u> No <u>Operation</u> No
MM205	Moated Site E of Grangefield Farm, scheduled monument	High	Alterations to the Northern Redwick Historic Landscape Character Area (HLCA) will have some impact on the ability to appreciate the historic setting within which this moated would have developed. Additionally, given the degree of past disturbance to the north, and the construction of a solar farm to the west, the Proposed Development within Northern Redwick may constitute an encroachment into a sensitive undeveloped area. Nonetheless, the Proposed Development will respect and retain the existing pattern of field systems. Given the low-lying nature of the development, it is not considered to materially alter the perception and	<u>Construction</u> Minor <u>Operation</u> Minor	<u>Construction</u> Minor adverse <u>Operation</u> Minor adverse	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			character of this historic asset. There may be temporary impacts to the setting of the asset during construction through the increase in traffic, noise, presence of construction traffic.			
MM128	Bishton Castle, scheduled monument	High	This designated historic asset is located 2.4km north of the Proposed Development. The asset enjoys a distant view of the Caldicot Level, however, the immediate setting is subdivided by thick hedgerow and bounded by the modern steel works and infrastructure that obscures views to the south and severed any possible historic connection with the Caldicot Level. The asset's primary connection is with other assets along the Llanwern Hills and Bishton Village. The Proposed Development will not materially alter the immediate setting of, or change the character of, this historic asset in a discernible way.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible adverse <u>Operation</u> Negligible adverse	<u>Construction</u> No <u>Operation</u> No
MM201, MM274 PGW(Gt)3(NPT) Cadw 17076, Cadw 2904	Pencoed Castle Site, scheduled monument; Registered Historic Park and Gardens; Grade II* and Grade II	High	Pencoed Castle is located on an elevated position and is a prominent local landmark. The relationship and connections of the individual historic assets with each other and with the surrounding rural landscape is intrinsic to their setting. The Proposed Development is located 3.7km north-east from this site. This, combined with intervening built	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible adverse <u>Operation</u> Negligible adverse	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
Cadw 3089, Cadw 3090, Cadw 3091	listed buildings		form, including the M4, steel works, and Europark, means the Proposed Development would not be intrusive in long views out and in the wider setting. The assets' primary connections with each other, with the immediate and surrounding landscape would not be impacted. The castle would retain its position as a prominent local landmark and views towards the assets would not be changed.			
Cadw 3065 Cadw 3066	Little Porton Cottage Grade II listed building Little Porton Byre Grade II listed building	High High	The use of Porton Road for the entry and exit of plant and materials during the construction phase will constitute a temporary change to the rural tranquillity of the assets' immediate setting. The closest proposed photovoltaic (PV) Array will be located 320m south-east. Views of the Proposed Development during construction and operation will be screened by mature vegetation and modern agricultural out-buildings, including the modern buildings of Great Porton. However, while the Proposed Development will change the visible Porton HLCA, the features such as field boundaries, hedgerow, and drainage ditches (that define this HLCA) will be retained. Moreover, both of these historic assets derive value from their group	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible adverse <u>Operation</u> Negligible adverse	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			association with each other and spatial relationship to other historic assets within the hamlet of Porton. This group relationship will be unchanged by the Proposed Development.			
Cadw 2943	Whiston Church, Grade II listed building	High	The use of Porton Road for the entry and exit of plant and materials during the construction phase will constitute a temporary change to the rural tranquillity of the historic asset's immediate setting. The church, however, is set back from the road; and consequently, the temporary increase in road traffic may not be perceptible. The church tower is relatively low-lying and set within a well screened environment of tall hedgerow and mature tree canopies. The Proposed Development would not impact the asset's primary connections with its churchyard, or with Whiston, and would not alter the spatial relationship the church has with nearby historic assets which enables the historic, communal, and architectural value of the asset to be understood and appreciated. The asset would maintain its position as a landmark building and views towards the asset would not be changed by the Proposed Development.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible adverse <u>Operation</u> Negligible adverse	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
MM226	Relict Seawall alongside Collister Pill Reen, scheduled monument	High	The Proposed Development may constitute an encroachment into the wider landscape which partly defines the value and character of this historic asset. The reen has a connection with the historic landscape and its agricultural land use. The loss of this landuse and the introduction of new built form across the Caldicot Level would have a tangible alteration to the assets wider setting.	<u>Construction</u> Minor <u>Operation</u> Minor	<u>Construction</u> Minor adverse <u>Operation</u> Minor adverse	<u>Construction</u> No <u>Operation</u> No
Cadw 16071	Moorgate Cottage, Grade II listed building	High	The Proposed Development would not impact the surviving rural landscape which forms the asset's immediate setting. The Proposed Development would not change how the historic asset is currently experienced.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> No <u>Operation</u> No
Cadw 16070	Great House Farmhouse including attached range of farm buildings	High	The asset is defined by the visual and historic connections between the component parts of the farm complex. The nearby Great Western Railway mainline is also prominent in the asset's immediate setting as is the settlement of Undy. The Proposed Development would not impact the asset's primary relationships and connections, including with Undy itself.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> No <u>Operation</u> No
Cadw 2940	Church of St Thomas, Redwick,	High	The Proposed Development would not materially alter the asset's immediate setting, including its relationship with its churchyard and with Redwick, nor would	<u>Construction</u> Minor <u>Operation</u> Minor	<u>Construction</u> Minor adverse <u>Operation</u>	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
	Grade I listed building		impact the character and value of this historic asset. However, the asset's wider surrounding landscape would be changed by the Proposed Development, which also contributes to the asset's setting. However, the Proposed Development would not change the spatial relationship this asset has with the settlement of Redwick and with the conservation area.		Minor adverse	
Cadw 3060	Brick House	High	The immediate landscape within which it is the asset is experienced would not be impacted. Additionally, its historic spatial relationship with Redwick conservation area would not be altered. However, its primary connection with Whitson Court would be further severed.	<u>Construction</u> Minor <u>Operation</u> Minor	<u>Construction</u> Minor adverse <u>Operation</u> Minor adverse	<u>Construction</u> No <u>Operation</u> No
Cadw 2944	Whitson Court & attached pavilions/garden walls, Grade II listed building	High	The Proposed Development would not materially alter the immediate setting or affect the character and value of this historic asset. While there may be a temporary increase in traffic during construction stage along Whitson Road it would not discernibly alter the character or appreciable value of this historic asset. Nonetheless, it would impact the wider surrounding landscape which contribute to the assets setting.	<u>Construction</u> Minor <u>Operation</u> Minor	<u>Construction</u> Minor adverse <u>Operation</u> Minor adverse	<u>Construction</u> No <u>Operation</u> No
Cadw 17538	Barn at Great Newra	High	The Proposed Development would not impact the visual and historic connections between the two assets. It would not	<u>Construction</u> Negligible <u>Operation</u>	<u>Construction</u> Negligible <u>Operation</u>	<u>Construction</u> No <u>Operation</u>

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
Cadw 17539	Great Newra, Grade II listed building		change how the assets are currently experienced. The immediate landscape within which the assets may be experienced would not be impacted.	Negligible	Negligible	No
Cadw 17540	Whitson Farm, Grade II listed building	High	The Proposed Development would not materially alter the immediate setting or affect the character and value of this historic asset. While there may be a temporary increase in traffic during construction stage along Whitson Road it would not discernibly alter the character or appreciable value of this historic asset. The wider landscape within which the asset may be experienced may be impacted, however, the primary relationship with Whitson Court would not be altered.	<u>Construction</u> Minor <u>Operation</u> Minor	<u>Construction</u> Minor adverse <u>Operation</u> Minor adverse	<u>Construction</u> No <u>Operation</u> No
Cadw 17541	Samson Court, Grade II listed building	High	The Proposed Development would not materially alter the asset's immediate setting, which consists of its overall farm complex and its immediate surrounding landscape, nor would it affect the overall character and value of this historic asset. However, the wider landscape would be altered by the Proposed Development and limited may be possible. Particularly, in winter periods with limited vegetation.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible adverse <u>Operation</u> Negligible adverse	<u>Construction</u> No <u>Operation</u> No
N/A	Redwick Conservation Area	High	The Proposed Development will conduct construction of the solar farm 500m to east, 90m to the south, 600m to the west,	<u>Construction</u> Minor <u>Operation</u>	<u>Construction</u>	<u>Construction</u> No <u>Operation</u>

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			<p>and 1.1km north-west of the conservation area boundary. Views of the Proposed Development from the conservation area towards the east, west, and north-west will be obscured due to the intervening hedgerow and mature tree canopy screening. The presence of the solar farm in these locations is sufficiently set back from the conservation area that it would not have a discernible change to the immediate setting. Glimpse views of the construction and operation of the Proposed Development may be possible looking southward from Shop Row. Additionally, it is probable that an increase in noise and light pollution within the vicinity of Redwick would take place during the construction stage due to the movement of materials and plant through the village, particularly along Shop Row. This would temporarily disturb the apparent rural tranquillity of the village setting.</p> <p>In operation, the upper-most sections of the Proposed Development to the south of Redwick may be visible and may obscure any glimpse southward views. Moreover, security lighting during construction may also be visible from Shop Row.</p>	Minor	Minor adverse <u>Operation</u> Minor adverse	No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			The alteration to the wider historic landscape, which is intrinsically connected to, and contributes to, understanding of the conservation area, would be tangibly altered.			
Non-designated Assets within Redwick (East)						
GGAT0888 8g	Coldharbour Reen	Low	One crossing is proposed across the main water course to the south of Summerleaze (Figure 2-17). This will consist of a Horizontal Directional Drilling (HDD) cable crossing beneath the footprint of the water course and a crossing bridge for construction and maintenance trackway. This crossing would be 4.5m wide. The supports needed to install the crossing may require localised reshaping of the reen bank and the driving of mini support piles. While this will alter the configuration of the reen it would be within a localised area relative to wider extent of the reen. Consequently, the wider integrity and comprehension of this asset would remain unaltered.	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
				<u>Operation</u> Medium	<u>Operation</u> Minor adverse	<u>Operation</u> No
GGAT 11158g	Drainage Ditch near Coldharbour Pill	Low	The excavated ditch feature extended to 0.4mbgl. The screw-type support piles for the Solar Panels will extend beyond this. While the driving of these posts will be localised, they will change the form of the	<u>Construction</u> Low	<u>Construction</u> Negligible adverse	<u>Construction</u> No
				Operation N/A	Operation	Operation N/A

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			remaining ditch feature and our understanding of its configuration.		N/A	
GGAT 06257g	Possible Roman Road	Low	Datable evidence associated with the road has been recovered at 1.8mbgl. Solar panel support screw-piles may extend into archaeological horizons and truncate remains within pile footprints. Nonetheless, the sense of the road will not be diminished by the construction of the Proposed Development, and the entirety of the road will not be lost.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
GGAT 11152g	Roman Ditch, Magor	Low	Datable evidence has been recovered at 1.8mbgl. Solar Panel support screw-piles may extend into archaeological horizons and truncate remains within pile footprints.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
GGAT 11151g	Roman Land Surface, Magor	Low	Datable evidence has been recovered at 1.8mbgl. Solar Panel support screw-piles may extend into archaeological horizons and truncate remains within pile footprints.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
GGAT 00460g	Watermill, Magor	Low	The indicative location of the medieval water mill is along Mill Reen. No construction works are proposed in this area as the existing road network will be used for construction access.	<u>Construction</u> Negligible <u>Operation</u> N/A	<u>Construction</u> Negligible <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
B7	Water Meadow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and ree crossings will have a collective direct physical change on the surviving remains that make-up the identified water meadow. The various truncations and visual obstructions will reduce the discernible character of the water meadow. Moreover, the introduction of impermeable concrete foundation blocks may alter local drainage patterns that affect the function of the water meadow. However, the meadow will survive as a landscape feature, albeit obscured by the Solar Panels while they are extant.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
B8	Medieval Ridge and Furrow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and ree crossings will have a collective direct physical change on the surviving remains that make up the identified ridge and furrow earthworks. However, the ridge and furrow will survive below the panels.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
B9	Post-Medieval Ridge and Furrow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and ree crossings will have a collective direct physical change on the surviving remains that make up the identified ridge and furrow earthworks.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			However, the ridge and furrow will survive below the panels.			
B10	Ditched Enclosures (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing will have a collective direct physical change on the surviving remains that make up the identified ditched enclosure. However, the enclosures will not be fully removed by the development.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
B11	Field Boundaries (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing will have a collective direct physical change on the surviving remains that make up the identified ditched enclosure. However, not all of the field boundaries will be lost.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
Non-designated Assets within Redwick (West)						
GGAT 10954g	Moated Site	Medium	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and the creation of a new PRow will cause direct physical change to the surviving earthworks and buried remains of this site and damage its perceptibility in the landscape. The west extent of this historic asset would remain intact.	<u>Construction</u> High <u>Operation</u> N/A	<u>Construction</u> Moderate adverse <u>Operation</u> N/A	<u>Construction</u> Yes <u>Operation</u> N/A
GGAT 06218g	Sea Street Lane 'Lobe-	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles and construction trackways will cause	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
	Shaped Enclosure'		direct physical change to the surviving earthworks and buried remains of this Site. However, elements of the enclosure will survive.	<u>Operation</u> N/A	<u>Operation</u> N/A	<u>Operation</u> N/A
C3	Water Meadow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and reen crossings will have a collective direct physical change on the surviving remains that make-up the identified water meadow. The various truncations and visual obstructions will reduce the discernible character of the water meadow. Moreover, the introduction of impermeable concrete foundation blocks may alter local drainage patterns that affect the function of the water meadow. However, the meadow will survive as a landscape feature, albeit obscured by the Solar Panels while they are extant.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
C4	Possible Trackway (LiDAR)	Negligible	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, and construction trackways will have direct physical change although not all of the feature will be lost.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
C5	Medieval Ridge and Furrow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and reen crossings will have a collective direct physical change	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u>	<u>Construction</u> No <u>Operation</u>

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			on the surviving remains that make up the identified ridge and furrow earthworks. However, the ridge and furrow will survive below the panels.		N/A	N/A
C6	Post-Medieval Ridge and Furrow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and reen crossings will have a collective direct physical change on the surviving remains that make up the identified ridge and furrow earthworks. However, the ridge and furrow will survive below the panels.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
C7	Former Field Boundary (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and reen crossings will have a collective direct physical change on the surviving remains of former field boundary. This may lead to partial truncation of these features. However, not all of the field boundary will be lost.	<u>Construction</u> Low <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
C8	Small agricultural building	Low	The field access adjacent to the building will be used for construction and operation. A perimeter fence will also be installed nearby the building. PV Arrays will be installed within the field that the building overwatches. The buildings setting is obviously rural and specifically related to agricultural land-use. It is not evident that the building remains in use. The current state of	<u>Construction</u> Medium <u>Operation</u> Medium	<u>Construction</u> Minor adverse <u>Operation</u> Minor adverse	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			degradation would suggest that it is not. Nonetheless, the establishment of the Proposed Development would alter the immediate setting it would not diminish the rural nature of area. The severance of the building from agricultural contexts may suggest that it would remain out-of-use and continue to physically degrade. Consequently, the Proposed Development would have an impact and cause harm to the asset.			
Non-designated Assets within Redwick Broadmead						
GGAT 06224g	Broadmead	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, reen crossings and construction trackways will disturb the coherence of surviving elements of the Broadmead. Nonetheless, much of the existing field boundaries and field configuration will be retained.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
GGAT 11164g	Medieval ditch: Broad Mead, near Redwick	Low	The excavations for perimeter fencing, CCTV trenches, and AC cable trenches would truncate the surviving remains of this ditch feature, although it would not be totally lost.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
GGAT 15715g; GGAT 15716g;	Footbridge, Redwick	Low	Construction trackway crossings are proposed across some of the footbridge locations. These crossing would need to be of sufficient capacity to carry plant and	<u>Construction</u> High <u>Operation</u>	<u>Construction</u> Moderate adverse	<u>Construction</u> Yes <u>Operation</u>

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
GGAT 15717g; GGAT 15718g; GGAT 15719g; GGAT 15720g; GGAT 15721g; GGAT 15722g; GGAT 15730g; GGAT 15731g; GGAT 15732g; GGAT 15733g; GGAT 15734g; GGAT 15735g			<p>materials and extend 4.5m wide. It is, therefore, assumed that crossings construction would require the demolition and/or partial removal of any existing footbridge features. This would cause harm to these assets.</p> <p>The operation of the Proposed Development will alter the perception or character of these assets which is related to its relationship with existing ditch features and crossing between Mead Lane and individual field systems.</p>	High	<u>Operation</u> Moderate adverse	Yes
GGAT 15736g	Hedge, Redwick	Low	The remaining hedgerow feature will be retained with no bisection as a consequence of the Proposed Development.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> No <u>Operation</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
GGAT 15737g	Hedge, Redwick	Low	The remaining hedgerow feature will be retained with no bisection as a consequence of the Proposed Development.	<u>Construction</u> Negligible	<u>Construction</u> Negligible	<u>Construction</u> No
				<u>Operation</u> Negligible	<u>Operation</u> Negligible	<u>Operation</u> No
GGAT 15753g	Stone, Redwick	Low	The Proposed Development is not anticipated to have a change to surviving fabric of this historic asset.	<u>Construction</u> Minor	<u>Construction</u> Minor adverse	<u>Construction</u> No
			The operation of the Proposed Development will not change the perception or character of this asset.	<u>Operation</u> Minor	<u>Operation</u> Minor adverse	<u>Operation</u> No
Non-designated Assets within Northern Redwick						
E1	Water meadow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and reeN crossings will have a collective direct physical change on the surviving remains that make-up the identified water meadow. The various truncations and visual obstructions will reduce the discernible character of the water meadow. Moreover, the introduction of impermeable concrete foundation blocks may alter local drainage patterns that affect the function of the water meadow. However, the meadow will survive as a landscape	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
				<u>Operation</u> N/A	<u>Operation</u> N/A	<u>Operation</u> N/A

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
			feature, albeit obscured by the Solar Panels while they are extant			
Non-designated Assets within Porton (South)						
GGAT 11163g	Roman ditches near Redwick	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, and perimeter fencing may extend into archaeological horizons and result in direct physical change.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
GGAT 10946g	Moated sub-rectangular platform	High	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, and perimeter fencing may extend into archaeological horizons and result in direct physical change. The truncation of visible earthworks will degrade the coherence of the historic asset.	<u>Construction</u> High <u>Operation</u> N/A	<u>Construction</u> Moderate adverse <u>Operation</u> N/A	<u>Construction</u> Yes <u>Operation</u> N/A
GGAT 10947g	Moated platform	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, and perimeter fencing may extend into archaeological horizons and result in direct physical change. The truncation of visible earthworks will degrade the coherence of the historic asset.	<u>Construction</u> High <u>Operation</u> N/A	<u>Construction</u> Moderate adverse <u>Operation</u> N/A	<u>Construction</u> Yes <u>Operation</u> N/A
GGAT 10948g	Moated sub-rectangular platform	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, and perimeter fencing may extend into archaeological horizons and result in direct physical change. The truncation of visible earthworks will degrade the coherence of the historic asset.	<u>Construction</u> High <u>Operation</u> N/A	<u>Construction</u> Moderate adverse <u>Operation</u> N/A	<u>Construction</u> Yes <u>Operation</u> N/A

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
GGAT 15738g	Possible pond surrounded by hedgerow	Low	The Proposed Development is not anticipated to have a change to surviving fabric of this historic asset.	<u>Construction</u> Low	<u>Construction</u> Negligible adverse	<u>Construction</u> No
			The operation of the Proposed Development will not change the perception or character of this asset.	<u>Operation</u> Low	<u>Operation</u> Negligible	<u>Operation</u> No
GGAT 15709g; GGAT 15728g; GGAT 15729g; GGAT 15735g	Footbridges near Goldcliff	Low	The Proposed Development will not subject these assets to direct physical harm. Nonetheless, these assets are also not anticipated to be used as functional access points for the operation and maintenance of the Proposed Development. In the case of two footbridges (GGAT15709g; GGAT15735g), proposed perimeter fencing will block access across the footbridges and diminish their respective aesthetic and communal value. Subsequently, their relationship with the landscape will have been materially altered.	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
GGAT 11162g	Post-medieval ditches near Redwick	Low	The excavation of trenches for MV cable installation and screw-piles for Solar Panel installation will truncate through any surviving buried remains of this asset.	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
				<u>Operation</u> N/A	<u>Operation</u> N/A	<u>Operation</u> N/A
F11	Post-medieval	Low	The excavation of perimeter fencing, CCTV trench, DC cable trench and Solar	<u>Construction</u> Medium	<u>Construction</u>	<u>Construction</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
	Structure/ Enclosure (LiDAR)		Panel screw-pile will truncate the north section of this feature and remove any associated buried remains.	<u>Operation</u> N/A	Minor adverse <u>Operation</u> N/A	<u>Operation</u> N/A
F12	Water meadow (LiDAR)	Low	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, perimeter fencing, and ree crossings will have a collective direct physical change on the surviving remains that make-up the identified water meadow. The various truncations and visual obstructions will reduce the discernible character of the water meadow. Moreover, the introduction of impermeable concrete foundation blocks may alter local drainage patterns that affect the function of the water meadow. However, the meadow will survive as a landscape feature, albeit obscured by the Solar Panels while they are extant.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
F13	Trackway (LiDAR)	Negligible	The excavation of trenches for MV and AC cables, Solar Panel screw-type piles, and construction trackways will have direct physical change.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
Non-designated Assets within Porton (North)						
GGAT 15725g;	Footbridge	Low	These bridges will not be subject to direct physical harm and their continued use as	<u>Construction</u> Negligible	<u>Construction</u>	<u>Construction</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
GGAT 15726g; GGAT 15727g			primary access points into field systems is an integral element to the value of these historic assets. The operation of the solar farm will not change the perception or character of these assets which is related to its relationship with existing ditch features and crossing between individual field systems.	<u>Operation</u> Negligible	Negligible Adverse <u>Operation</u> Negligible Adverse	<u>Operation</u> No
G4	Water meadow (LiDAR)	Low	The excavation of MV cable trenches along the east section of this feature will partially truncate the water meadow, however, the majority of the meadow will remain unaltered and intact.	<u>Construction</u> Medium <u>Operation</u> N/A	<u>Construction</u> Minor adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
G5	Drainage Ditch (LiDAR)	Negligible	The excavation of MV cable trenches along the east section of this feature will partially truncate the ditch feature. However, the majority of the drainage ditch will remain unaltered and intact.	<u>Construction</u> Minor <u>Operation</u> N/A	<u>Construction</u> Negligible adverse <u>Operation</u> N/A	<u>Construction</u> No <u>Operation</u> N/A
Non-designated Assets within Whitson and Whitson Black Fen						
GGAT 10938g	Two adjacent enclosures	Low	The Proposed Development is not anticipated to have a change to surviving fabric of this historic asset.	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> Negligible <u>Operation</u> Negligible	<u>Construction</u> No <u>Operation</u> No
GGAT 10939g	Pair of sub-rectangular enclosures	Low	The Proposed Development is not anticipated to have a change to surviving fabric of this historic asset.	<u>Construction</u> Negligible	<u>Construction</u> Negligible	<u>Construction</u> No

Asset Ref. No.	Description	Sensitivity (Value)	Description of Change	Magnitude of Change	Significance of effect	Significant effect (Yes/No)
				<u>Operation</u> Negligible	<u>Operation</u> Negligible	<u>Operation</u> No
H3	Ridge and Furrow	Low	The construction of North Compound 2 will truncate surviving ridge and furrow earthworks and degrade the coherence of remaining elements.	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
				<u>Operation</u> N/A	<u>Operation</u> N/A	<u>Operation</u> N/A
H4	Water meadow	Low	The excavation for cable installation will truncate the surviving water meadow within a localised footprint. The general coherence of the water meadow feature will remain intact.	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
				<u>Operation</u> N/A	<u>Operation</u> N/A	<u>Operation</u> N/A
H5	Quarry Pit	Low	The construction of electrical sub-station compound (Compound E, Grid Connection Option 2) will truncate any surviving earthworks of the quarry pit and degrade the coherence of asset.	<u>Construction</u> Medium	<u>Construction</u> Minor adverse	<u>Construction</u> No
				<u>Operation</u> N/A	<u>Operation</u> N/A	<u>Operation</u> N/A
H6	Drainage ditches	Low	The Proposed Development is not anticipated to have a change to surviving fabric of this historic asset.	<u>Construction</u> Negligible	<u>Construction</u> Negligible	<u>Construction</u> No
				<u>Operation</u> Negligible	<u>Operation</u> Negligible	<u>Operation</u> No