Heckington Fen Solar Park

ENO10123

Environmental Statement | Volume 3: Technical Appendices
Appendix 17.5: OP description and summary for 10 degree and 20 degree panel angles

Applicant: Ecotricity (Heck Fen Solar) Limited

Document Reference: 6.3.17.5
Pursuant to: APFP Regulation 5(2)(a)

February 2023

Planning Act 2008

APPENDIX 17.5 - OP DESCRIPTION AND SUMMARY FOR 10 DEGREE AND 20 DEGREE PANEL ANGLES

Document Properties		
Regulation Reference	Regulation 5(2)(a)	
Planning Inspectorate Scheme Reference	EN010123	
Application Document Reference	6.3.17.5	
Title	Appendix 17.5 - OP Description and summary for 10 degree and 20 degree panel angles	
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Version History		
Version	**Date**	**Version Status**
Rev 1	February 2023	Application Version

Appendix 17.5- OP Description and summary for 10 degree and 20 degree panel angles

Summary Glint effects on Point Receptors from Fixed Panels (10 degrees) and the Significance

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP1 Rakes Farm	The building, which is located at the southern tip of the Energy Park, appears to have some large vegetation directly between it and the panels. There is also a complex of farm buildings that would potentially screen effects from the house but would be open to glint themselves.	Limited	0	136	Medium	**Minor to Negligible** prior to mitigation **(Not Significant)** **None** after mitigation **(Not Significant)**
OP2 Six Hundred Farm	The dwelling, which is adjacent to the A17, is screened from most of the Energy Park by the presence of barns to its rear.	Limited	0	0	Medium	**None (Not Significant)**
OP3 Swineshead House	The dwelling is set within a large curtilage and there are mature shrubs and a walled garden which would provide a level of screening.	Limited	0	0	Medium	**None (Not Significant)**
OP4 Carpenters	On the far side of the A17, and slightly lower than the road, this dwelling would have limited views towards	Limited	0	0	Medium	**None**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	the Energy Park due to the presence of hedgerows on both sides of the road. The main aspect of the house is away from the Energy Park and although there appear to be two small windows that face towards the Energy Park it is unlikely that these will have any direct visibility.					**(Not Significant)**
OP5 Maize Farm	Again, on the far side of the A17 and behind substantial dense evergreen vegetation, it is not expected that there will be any direct visibility to the Energy Park.	No	0	1	Medium	**None** **(Not Significant)**
OP6 Large dwelling in midsection of Old Main Road	This dwelling is representative of a collection of other dwellings in the same area of Old Main Road. There are a lot of trees present in the area, including a number in the curtilage of this property, which will provide a good degree of screening. It is unlikely that there will be much direct visibility of the Energy Park but the area of panels predicted to cause glint are in the far south east corner of the Energy Park and should be well screened. Onsite screening will enhance this and ensure that there is no visibility.	Limited, (if any) prior to mitigation, reducing to none with screening.	0	2,366	Medium	**Minor to Negligible** prior to mitigation **(Not Significant)** **None** after mitigation **(Not Significant)**
OP7 Most easterly dwelling on Old Main Road	This dwelling is representative of several properties in the immediate area. Substantial vegetation impedes views of the majority of the Site but there is potential visibility to the most south-easterly corner of the Energy Park, which is the area predicted to cause	Limited, (if any) prior to mitigation, reducing to	0	915	Medium	**Minor to Moderate** prior to mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	observable glint effects. However, boundary screening onsite at the Energy Park will prevent visibility.	none with screening.				**(Significant)** **None** after mitigation **(Not Significant)**
OP8 Most Westerly dwelling on Old Main Road	Again, representative of a cluster of dwellings in this area, lower floors are unlikely to have visibility due to their own boundary screening. Upper floors may well have views over this, into the Energy Park. Onsite screening will help reduce visibility but there may remain some visibility from upper floors. Most of the predicted glint effects arise from the south-eastern corner of the Energy Park, of which there will be very limited views.	Yes, possibly from upper floors Some slight visibility may persist after onsite screening, but effects will be very limited	0	1,901	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Minor to Negligible** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP9 Mountain's Abbey Parks Farm Shop	This is a commercial receptor rather than a residential receptor. Although there are mature trees on the opposite side of the A17 that will provide some level of screening this will not be sufficient to prevent some visibility directly to the Energy Park where there are large gaps in the coverage. Boundary treatment within the Energy Park will need to be used to provide a good degree of screening.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,431	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP10 Rectory Cottage	Vegetation within the curtilage will provide some screening but the width of the solar development would be too great for this to mask all of the Energy Park. There is likely to be some visibility to the Energy Park, especially from upper floor windows and onsite boundary planting will needed to prevent visibility.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,099	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP11 Rectory Farm House	Substantial vegetation will prevent visibility from lower level windows but there may be some views from upper floors out over the Energy Park. Other dwellings in the immediate vicinity ae likely to have even less (if any) visibility due to the screening provided by Rectory Farm House itself.	Yes, partial visibility without mitigation. Onsite screening will	0	382	Medium	**Minor to Moderate** prior to mitigation **(Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
		reduce this to none.				**None** after mitigation **(Not Significant)**
OP12 Beech House	This property is likely to have views over the Energy Park from upper-level windows and possibly from lower-level windows as well. Onsite boundary screening will likely be required to ensure glint effects are restricted.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	254	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP13 Dwelling at Home Farm	As with Beech House, it is likely that screening at the property will be insufficient to prevent visibility of the Energy Park. Boundary screening at the Energy Park will be required to prevent visibility.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,797	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP14 Rose Cottage	There are a number of trees and buildings present in the foreground between the dwelling and the Energy Park that will partially screen it but the extent of the solar arrays are such that panels will remain visible beyond the intervening screening. Other dwellings in the same area but to the south of the A17 will likely have slightly less visibility. Larger properties immediately to the west are enclosed by trees and will have much more limited visibility.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,258	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP15 Dwelling on B1395 Sidebar Lane Close to A17	The selected dwelling is representative of several dwellings located in this area. They are close to the south western corner of the Energy Park and general have views out towards the east. Some of these properties are bungalows so visibility may be more limited with ground floor windows not seeing past garden hedgerows, however, some are houses and upper floors will inevitably overlook the Energy Park.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	19	Medium	**Minor** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP16 Dwelling on B1395 Sidebar Lane 250m North of OP15	OP16 is representative of several houses at this location and is broadly exposed to the same views as OP15 but, being further north has potential to experience quite a bit more glint. The buildings in this location are semi-detached houses so there will be upper floor windows, with views out towards the	Yes, partial visibility without mitigation. Onsite screening will	0	1,901	Medium	**Minor to Moderate**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	Energy Park. Onsite screening on the western boundary will substantially reduce visibility	reduce this to none.				prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP17 Dwelling on Sidebar Lane 7pprox. 500m south of Littleworth Drove/Crab Lane	This receptor is a bungalow on the western side of Sidebar Lane. It has open views towards the Energy Park with very little screening so any mitigation would need to be provided around the boundary of the Energy Park.	Yes, good visibility with no screening at present. Onsite mitigation will be necessary to reduce glint effects.	0	59	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP18	OP18 is not a residential receptor and can be ignored.	N/A	-	-	-	-

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP19 The Chapel House, Sidebar Lane	Like OP17, this property, which is located close to the junction between Sidebar Lane and Crab Lane, has views directly to the East towards the Energy Park. It appears to be single storey building with very high ceilings. Three large windows on the eastern side of the building look directly out towards the Energy Park with little to no screening. Only a small amount of glint is predicted at this location. This receptor is representative of Glebe Farm House, although that building is much more heavily screened with localised vegetation.	Yes, good visibility with no screening at present. Onsite mitigation will be necessary to reduce glint effects.	0	7	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP20 Five Willow Wath Farm	The main residential building is single storey with south-facing windows. There is some screening present but it is expected that there will still be views through to the Energy Park.	Partial	0	0	Medium	**None (Not Significant)**
OP21 Pattingden House	This property has windows facing directly towards the site. However, in a fixed panel layout it will not experience any glint as the views will be of the backs of the panels, or of screening hedgerows.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP22 Mill Green Farm	This farm complex is located directly to the north of the Energy Park and has views towards the panels. In a fixed panel layout glint effects will tend to affect properties to the east and west and to the south of the Energy Park but glint will not be reflected to the north.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP23 The Farmhouse, Maryland Bank	Views from lower windows will be limited by the hedgerows around the garden but the upper floors will have oblique views towards Energy Park. The location is still north of the arrays though so glint will not be possible from a fixed panel layout.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP24 Six Maryland Bank	This receptor is representative of a cluster of properties in this location. Farm buildings associated with Chestnut House Farm will provide some screening, as will bands of nearby trees but there may still be glimpses of the Energy Park. The positioning of the panels means that there is not predicted to be any glint from either panel configuration	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP25 Three Maryland Bank	This receptor is indicative of several dwellings in the vicinity. The properties are partially screened by vegetation within the curtilage of the properties themselves. They are predominantly single storey buildings.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP26 St John the Baptists Church	The church appears to be well screened from the surrounding area with hedgerows enclosing the graveyard. Within the Church itself there is not likely to be windows that overlook the Energy Park.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP27	This dwelling is representative of several buildings at the northern end of Claydike Bank, just before it changes to Maryland Bank. The dwellings here appear to be well screened by mature trees and have little to no visibility to the Energy Park, especially from lower-level windows.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP28 22 Sutterton Drove	This location is representative of the Old Amber Hill hamlet, including the Pilgrim School, which is very well screened. Parts of the hamlet benefit from screening with mature trees, while part has more open views towards the Energy Park. The Energy Park is approximately 2km away so visibility will be limited, and glint intensity will be lower than for receptors very close to the panels.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP29 Claydike Bank	The building has a low box hedge that provides plenty of opportunity for views towards the Energy Park. It is intended to be representative of a cluster of buildings in the area but this one has some of the greatest visibility towards the Energy Park, with other dwellings screened by a combination of vegetation and agricultural buildings. As with other receptors the lack of screening close to the Energy Park is likely to need mitigating by applying screening along the Site boundary.	Yes, good visibility with no screening at present. Onsite mitigation will be necessary to reduce glint effects.	0	3	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP30 Kepplegate, Chapel Lane	This site is indicative of the dwellings nearby. The receptor is located at the intersection of Chapel Lane with Claydike Bank. This particular property benefits from an evergreen hedge (Leylandii) surrounding the building and completely screening the Energy Park. Some of the other local buildings do have clearer visibility to Energy Park and are more likely to be	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	6	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	susceptible to observing glint effects, which emanate from the north-eastern corner of the Energy Park.					**(Not Significant)**
OP31 College Farm, Browns Drove	This property has some vegetation screening views towards the southern part of the Energy Park but there is little screening to the mid and northern parts of the Energy Park. Most glint at this receptor is predicted from the mid part of the Energy Park and screening along the eastern boundary would benefit this receptor.	Good visibility of site with little screening present. Onsite mitigation necessary to reduce glint effects.	0	1,456	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP32	Small property on the west side of Browns Drove. This receptor is indicative of several other dwellings in the vicinity including College Cottage and Cattle Holme Farm. The building itself has limited views to the Energy Park as there is a thin hedgerow of trees to the rear of the property that will provide intermittent screening. The other properties benefit from greater screening. Glint primarily originates from the southern part of the site.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	798	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP33 14 Brown's Drove	This receptor is one of a series of semi-detached properties arranged along the southwestern side of Brown's Drove. OP33 in particular has little screening present and will have open views towards most of the Energy Park. Other dwellings in this cluster have varying amounts of screening present, with some being well screened and others not. Glint effects only emanate from the very south-eastern corner of the Energy Park so onsite screening in this area will considerably reduce effects.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	676	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP34 Ullyatts Farm, Ullyatt's Drove	This receptor is an isolated building approximately 1.8km to the west of the Energy Park. It has some screening present but will likely still have views of the Energy Park and will benefit from screening on the eastern perimeter of the Energy Park.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	25	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP35 Kane Farm, off the A17	This receptor is almost 3km to the west of the Energy Park and is representative of more distant receptors to the west. Although this receptor is quite well screened not all of the other receptors are. The glint model still	Partial visibility at present.	0	2,315	Medium	**Minor to Moderate** prior to mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	predicts a relatively high duration of glint despite the distance but the intensity will diminish with distance and there are screening features present in the intervening landscape that will help disrupt effects.	Onsite mitigation will help reduce glint effects.				**(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP36 Holme House, Littleworth Drove	At approximately 1.8km from the Energy Park this receptor is also a medium distance receptor. There is limited screening present at the dwelling to screen visibility to the Energy Park. However, there are a number of field boundaries between the receptor and the Energy Park, which are likely to provide some degree of screening due to the flat nature of the landscape. Screening mitigation will need to be carried out around the perimeter of the Energy Park in any areas where there is visibility.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	2,437	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP37 Vine Cottage, Littleworth Drove	This dwelling is partially screened by trees and hedges onsite but is likely to have some unobstructed, if oblique, views to parts of the Energy Park. Glint effects are limited and arise from the northern part of the Energy Park. Other nearby properties appear to be in a similar position, with some potential for visibility. Onsite screening around the north western corner of the site will help reduce any effects.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	31	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP38	It is not clear whether there is a residential receptor at this location or just agricultural receptors. Assuming there is a residential building it will have views partially screened by localised vegetation and trees. Views directly to the Energy Park will have to pass numerous field boundaries, any one of which may be sufficiently robust to completely block visibility.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	9	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP39 White House Farm	This observation point is to the north of the Energy Park and with fixed panels deployed glint effects will not be possible. There is some screening present at	No visibility to panels	0	0	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	the Farm and this will prevent a number of the potential glint effects from occurring.	capable of causing glint				
OP40 94 Clay Bank	These properties, about 1km to the north of the Energy Park, will not be able to experience any glint in the fixed panel layout as the windows would see the backs of the panels.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**

Summary Glint effects on Point Receptors from Fixed Panels (20 degrees) and the Significance

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP1 Rakes Farm	The building, which is located at the southern tip of the Energy Park, appears to have some large vegetation directly between it and the panels. There is also a complex of farm buildings that would potentially screen effects from the house but would be open to glint themselves.	Limited	0	0	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP2 Six Hundred Farm	The dwelling, which is adjacent to the A17, is screened from most of the Energy Park by the presence of barns to its rear.	Limited	0	0	Medium	**None (Not Significant)**
OP3 Swineshead House	The dwelling is set within a large curtilage and there are mature shrubs and a walled garden which would provide a level of screening.	Limited	0	0	Medium	**None (Not Significant)**
OP4 Carpenters	On the far side of the A17, and slightly lower than the road, this dwelling would have limited views towards the Energy Park due to the presence of hedgerows on both sides of the road. The main aspect of the house is away from the Energy Park and although there appear to be two small windows that face towards the Energy Park it is unlikely that these will have any direct visibility.	Limited	0	0	Medium	**None (Not Significant)**
OP5 Maize Farm	Again, on the far side of the A17 and behind substantial dense evergreen vegetation, it is not expected that there will be any direct visibility to the Energy Park.	No	0	1	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP6 Large dwelling in midsection of Old Main Road	This dwelling is representative of a collection of other dwellings in the same area of Old Main Road. There are a lot of trees present in the area, including a number in the curtilage of this property, which will provide a good degree of screening. It is unlikely that there will be much direct visibility of the Energy Park but the area of panels predicted to cause glint are in the far south east corner of the Energy Park and should be well screened. Onsite screening will enhance this and ensure that there is no visibility.	Limited, (if any) prior to mitigation, reducing to none with screening.	0	2,064	Medium	**Minor to Negligible** prior to mitigation **(Not Significant)** **None** after mitigation **(Not Significant)**
OP7 Most easterly dwelling on Old Main Road	This dwelling is representative of several properties in the immediate area. Substantial vegetation impedes views of the majority of the Site but there is potential visibility to the most south-easterly corner of the Energy Park, which is the area predicted to cause observable glint effects. However, boundary screening onsite at the Energy Park will prevent visibility.	Limited, (if any) prior to mitigation, reducing to none with screening.	0	633	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP8 Most Westerly dwelling on Old Main Road	Again, representative of a cluster of dwellings in this area, lower floors are unlikely to have visibility due to their own boundary screening. Upper floors may well have views over this, into the Energy Park. Onsite	Yes, possibly from upper floors	0	1,508	Medium	**Minor to Moderate** prior to mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	screening will help reduce visibility but there may remain some visibility from upper floors. Most of the predicted glint effects arise from the south-eastern corner of the Energy Park, of which there will be very limited views.	Some slight visibility may persist after onsite screening, but effects will be very limited				**(Significant)** **Minor to Negligible** after mitigation **(Not Significant)**
OP9 Mountain's Abbey Parks Farm Shop	This is a commercial receptor rather than a residential receptor. Although there are mature trees on the opposite side of the A17 that will provide some level of screening this will not be sufficient to prevent some visibility directly to the Energy Park where there are large gaps in the coverage. Boundary treatment within the Energy Park will need to be used to provide a good degree of screening.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,341	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP10 Rectory Cottage	Vegetation within the curtilage will provide some screening but the width of the solar development would be too great for this to mask all of the Energy Park. There is likely to be some visibility to the Energy Park, especially from upper floor windows and onsite boundary planting will needed to prevent visibility.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,009	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
						(Not Significant)
OP11 Rectory Farm House	Substantial vegetation will prevent visibility from lower level windows but there may be some views from upper floors out over the Energy Park. Other dwellings in the immediate vicinity ae likely to have even less (if any) visibility due to the screening provided by Rectory Farm House itself.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	335	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP12 Beech House	This property is likely to have views over the Energy Park from upper-level windows and possibly from lower-level windows as well. Onsite boundary screening will likely be required to ensure glint effects are restricted.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	174	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP13	As with Beech House, it is likely that screening at the property will be insufficient to prevent visibility of the	Yes, partial visibility	0	1,698	Medium	**Minor to Moderate**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
Dwelling at Home Farm	Energy Park. Boundary screening at the Energy Park will be required to prevent visibility.	without mitigation. Onsite screening will reduce this to none.				prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**
OP14 Rose Cottage	There are a number of trees and buildings present in the foreground between the dwelling and the Energy Park that will partially screen it but the extent of the solar arrays are such that panels will remain visible beyond the intervening screening. Other dwellings in the same area but to the south of the A17 will likely have slightly less visibility. Larger properties immediately to the west are enclosed by trees and will have much more limited visibility.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,031	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **None** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP15 Dwelling on B1395 Sidebar Lane Close to A17	The selected dwelling is representative of several dwellings located in this area. They are close to the south western corner of the Energy Park and general have views out towards the east. Some of these properties are bungalows so visibility may be more limited with ground floor windows not seeing past garden hedgerows, however, some are houses and upper floors will inevitably overlook the Energy Park.	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	21	Medium	**Minor** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP16 Dwelling on B1395 Sidebar Lane 250m North of OP15	OP16 is representative of several houses at this location and is broadly exposed to the same views as OP15 but, being further north has potential to experience quite a bit more glint. The buildings in this location are semi-detached houses so there will be upper floor windows, with views out towards the Energy Park. Onsite screening on the western boundary will substantially reduce visibility	Yes, partial visibility without mitigation. Onsite screening will reduce this to none.	0	1,908	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP17 Dwelling on Sidebar Lane 21pprox. 500m south of Littleworth	This receptor is a bungalow on the western side of Sidebar Lane. It has open views towards the Energy Park with very little screening so any mitigation would need to be provided around the boundary of the Energy Park.	Yes, good visibility with no screening at present. Onsite mitigation will be necessary	0	39	Medium	**Minor to Moderate** prior to mitigation **(Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
Drove/Crab Lane		to reduce glint effects.				**Negligible to None** after mitigation **(Not Significant)**
OP18	OP18 is not a residential receptor and can be ignored.	N/A	-	-	-	-
OP19 The Chapel House, Sidebar Lane	Like OP17, this property, which is located close to the junction between Sidebar Lane and Crab Lane, has views directly to the East towards the Energy Park. It appears to be single storey building with very high ceilings. Three large windows on the eastern side of the building look directly out towards the Energy Park with little to no screening. Only a small amount of glint is predicted at this location. This receptor is representative of Glebe Farm House, although that building is much more heavily screened with localised vegetation.	Yes, good visibility with no screening at present. Onsite mitigation will be necessary to reduce glint effects.	0	8	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP20 Five Willow Wath Farm	The main residential building is single storey with south-facing windows. There is some screening present but it is expected that there will still be views through to the Energy Park.	Partial	0	0	Medium	**None (Not Significant)**
OP21 Pattingden House	This property has windows facing directly towards the site. However, in a fixed panel layout it will not experience any glint as the views will be of the backs of the panels, or of screening hedgerows.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP22 Mill Green Farm	This farm complex is located directly to the north of the Energy Park and has views towards the panels. In a fixed panel layout glint effects will tend to affect properties to the east and west and to the south of the Energy Park but glint will not be reflected to the north.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP23 The Farmhouse, Maryland Bank	Views from lower windows will be limited by the hedgerows around the garden but the upper floors will have oblique views towards Energy Park. The location is still north of the arrays though so glint will not be possible from a fixed panel layout.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP24 Six Maryland Bank	This receptor is representative of a cluster of properties in this location. Farm buildings associated with Chestnut House Farm will provide some screening, as will bands of nearby trees but there may still be glimpses of the Energy Park. The positioning of the panels means that there is not predicted to be any glint from either panel configuration	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP25 Three Maryland Bank	This receptor is indicative of several dwellings in the vicinity. The properties are partially screened by vegetation within the curtilage of the properties themselves. They are predominantly single storey buildings.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP26 St John the Baptists Church	The church appears to be well screened from the surrounding area with hedgerows enclosing the graveyard. Within the Church itself there is not likely to be windows that overlook the Energy Park.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP27	This dwelling is representative of several buildings at the northern end of Claydike Bank, just before it changes to Maryland Bank. The dwellings here appear to be well screened by mature trees and have little to no visibility to the Energy Park, especially from lower-level windows.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP28 22 Sutterton Drove	This location is representative of the Old Amber Hill hamlet, including the Pilgrim School, which is very well screened. Parts of the hamlet benefit from screening with mature trees, while part has more open views towards the Energy Park. The Energy Park is approximately 2km away so visibility will be limited, and glint intensity will be lower than for receptors very close to the panels.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP29 Claydike Bank	The building has a low box hedge that provides plenty of opportunity for views towards the Energy Park. It is intended to be representative of a cluster of buildings in the area but this one has some of the greatest visibility towards the Energy Park, with other dwellings screened by a combination of vegetation and agricultural buildings. As with other receptors the lack of screening close to the Energy Park is likely to need mitigating by applying screening along the Site boundary.	Yes, good visibility with no screening at present. Onsite mitigation will be necessary to reduce glint effects.	0	3	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP30 Kepplegate, Chapel Lane	This site is indicative of the dwellings nearby. The receptor is located at the intersection of Chapel Lane with Claydike Bank. This particular property benefits from an evergreen hedge (Leylandii) surrounding the building and completely screening the Energy Park. Some of the other local buildings do have clearer visibility to Energy Park and are more likely to be susceptible to observing glint effects, which emanate from the north-eastern corner of the Energy Park.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	6	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP31 College Farm, Browns Drove	This property has some vegetation screening views towards the southern part of the Energy Park but there is little screening to the mid and northern parts of the Energy Park. Most glint at this receptor is predicted from the mid part of the Energy Park and screening along the eastern boundary would benefit this receptor.	Good visibility of site with little screening present. Onsite mitigation necessary to reduce glint effects.	0	1,449	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP32	Small property on the west side of Browns Drove. This receptor is indicative of several other dwellings in the vicinity including College Cottage and Cattle Holme Farm. The building itself has limited views to the	Partial visibility at present.	0	854	Medium	**Minor to Moderate** prior to mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	Energy Park as there is a thin hedgerow of trees to the rear of the property that will provide intermittent screening. The other properties benefit from greater screening. Glint primarily originates from the southern part of the site.	Onsite mitigation will help reduce glint effects.				**(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP33 14 Brown's Drove	This receptor is one of a series of semi-detached properties arranged along the southwestern side of Brown's Drove. OP33 in particular has little screening present and will have open views towards most of the Energy Park. Other dwellings in this cluster have varying amounts of screening present, with some being well screened and others not. Glint effects only emanate from the very south-eastern corner of the Energy Park so onsite screening in this area will considerably reduce effects.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	282	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
OP34 Ullyatts Farm, Ullyatt's Drove	This receptor is an isolated building approximately 1.8km to the west of the Energy Park. It has some screening present but will likely still have views of the Energy Park and will benefit from screening on the eastern perimeter of the Energy Park.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	23	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP35 Kane Farm, off the A17	This receptor is almost 3km to the west of the Energy Park and is representative of more distant receptors to the west. Although this receptor is quite well screened not all of the other receptors are. The glint model still predicts a relatively high duration of glint despite the distance but the intensity will diminish with distance and there are screening features present in the intervening landscape that will help disrupt effects.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	1,939	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP36 Holme House, Littleworth Drove	At approximately 1.8km from the Energy Park this receptor is also a medium distance receptor. There is limited screening present at the dwelling to screen visibility to the Energy Park. However, there are a	Partial visibility at present.	0	2,053	Medium	**Minor to Moderate** prior to mitigation

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
	number of field boundaries between the receptor and the Energy Park, which are likely to provide some degree of screening due to the flat nature of the landscape. Screening mitigation will need to be carried out around the perimeter of the Energy Park in any areas where there is visibility.	Onsite mitigation will help reduce glint effects.				**(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP37 Vine Cottage, Littleworth Drove	This dwelling is partially screened by trees and hedges onsite but is likely to have some unobstructed, if oblique, views to parts of the Energy Park. Glint effects are limited and arise from the northern part of the Energy Park. Other nearby properties appear to be in a similar position, with some potential for visibility. Onsite screening around the north western corner of the site will help reduce any effects.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	26	Medium	**Minor to Moderate** prior to mitigation **(Significant)** **Negligible to None** after mitigation **(Not Significant)**
OP38	It is not clear whether there is a residential receptor at this location or just agricultural receptors. Assuming there is a residential building it will have views partially screened by localised vegetation and trees. Views directly to the Energy Park will have to pass numerous field boundaries, any one of which may be sufficiently robust to completely block visibility.	Partial visibility at present. Onsite mitigation will help reduce glint effects.	0	8	Medium	**Minor to Moderate** prior to mitigation **(Significant)**

Observation Point (OP)	Screening Present	Site Visibility	Magnitude		Sensitivity	Significance
			Green Glint (min)	Yellow Glint (min)		
						Negligible to None after mitigation **(Not Significant)**
OP39 White House Farm	This observation point is to the north of the Energy Park and with fixed panels deployed glint effects will not be possible. There is some screening present at the Farm and this will prevent a number of the potential glint effects from occurring.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**
OP40 94 Clay Bank	These properties, about 1km to the north of the Energy Park, will not be able to experience any glint in the fixed panel layout as the windows would see the backs of the panels.	No visibility to panels capable of causing glint	0	0	Medium	**None (Not Significant)**