Photography, Verified Views and Methodology



Overview

A verified photomontage is a visual representation of a proposed development that is as accurate as it is possible to be within the limits of the technology used and the available data. Although it is not possible to achieve 100% perfect accuracy due to minor errors in survey work, environmental variables and photographic distortion, the careful implementation of a best practise method will result in only a negligible error.

The photomontage images represent how the proposed development would be perceived from a number of locations surrounding the site. These locations were chosen as the result of a detailed consideration of sensitive viewpoints.

The methods described in this document are based on current best practise and follow recommendations from 'Guidelines for Landscape and Visual Impact Assessment 3rd edition' (GLVIA3), Landscape Institute and IEMA (2013), alongside the Landscape Institute technical guidance note, 'Visual Representation of Development Proposals, (LI 06/19)

Methodology

Photography

During the field study, a photographic record was made to represent the full range of potential views towards the site from available viewpoints within the study area. These locations are mapped, the visual receptor types recorded and viewpoint context described. All photographs have been taken from publicly accessible locations; no private access was needed. The methodology ensures that the combination of camera and lens recreates as close as possible what can be seen by the human eye.

Equipment:

The aim of a verified photomontage is to illustrate what a proposed development may look like to a person standing at a specified photographic viewpoint. In order to create this effect, all photographs are taken with a camera and lens combination, resulting in a 'standard' focal length (equivalent to the cone of human vision). A standard focal length is usually considered to be in the range 45mm to 55mm on a traditional 35mm film camera. On digital cameras, where the image sensor is often smaller than the recorded image on traditional film cameras, the focal length of the lens used must compensate for the effective magnification resulting from the smaller sensor.

A Canon 5D Mark IV full frame sensor camera was used for all viewpoints in conjunction with a Canon 50mm prime lens (35mm format equivalent), which is within the 'standard' focal length range. The full frame sensor in the Canon 5D therefore, results in no magnification. To eliminate the parallax error that occurs when taking panoramic images, a sliding plate on the tripod head was employed allowing the camera to be moved back along the line of sight so that the nodal point of the lens was positioned directly over the axis of rotation.

Image capture: The camera was mounted on a tripod using a Nodal Ninja Panoramic tripod head

at 1.6m above ground level to simulate the view at eye level.

The orientation of the camera was adjusted so that the optical axis and the horizontal axis were aligned with the horizon. This is the 'astronomical' horizon as set by a gravity governed bubble level.

Images were captured in the camera's maximum quality jpeg mode, with a RAW image processed as a backup. Camera settings were chosen carefully for each viewpoint; the camera was set to aperture priority mode, a small aperture of f/11 was used and the focus distance selected specifically to render all parts of the scene in focus whilst retaining image quality.

Panoramas were deemed essential to show the maximum extent of the proposed development and so frames were taken at 20-degree intervals to allow for overlap (discussed below).

Post Production: The panoramas were stitched together using PT Gui Pro specialist panorama creation software, with each photograph being cropped to take only the central portion of each image. These precautions minimise the small amount of optical distortion effect caused by the camera lens. Images were imported as jpeg files and minor tonal and colour adjustments were made which aim to replicate the scene as honestly as possible as it was perceived by the photographer at the time of capture. The stitched cylindrical panorama was then cropped to 90° for use as a baseline 'existing' view.

Survey

Precise surveying was essential to gain accurate information of the camera and control point positions. GPS readings were taken from the central tripod position that the camera was placed using a Spectra Precision SP60 GNSS Receiver, which achieved a 25mm degree of tolerance.

Control Points:

Control points are surveyed points/objects that can clearly be identified on the photograph. Since they are included in the 3D model, they can be visually matched with the corresponding points on the photograph.

Control points were identified within each photograph and marked for the survey team to take measurements. A minimum of three control points were chosen, and five where possible of fixed features such as lamp-posts, fences and sign posts. Occasionally if available, control points taken from another viewpoint were also used for even more accurate positioning of the 3D model within the photograph. Due to the rural nature of many of the viewpoint locations, survey poles were used as temporary control points. These control points were then created within the 3D program in the precise positions.

Control points were taken using the aforementioned Spectra Precision GPS device.

All survey measurements were supplied in CAD format for use in the 3D model.

Client

Solar Century
Sheepwash Solar Energy Farm,
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Drawing Title Methodology



3D Model

3D models were created which were then aligned within 3DS Max using the site masterplan to determine the X and Y position. Finished floor levels were then used to accurately position the 3D model vertically AOD (above ordnance datum).

Camera Matching and Rendering

The process of camera matching (i.e. correctly assembling the perspective views within the 3D program to match those photographs taken on site) needs meticulous attention to detail. The details of the Ordnance Survey co-ordinates for each viewpoint, and the angle of each view were also checked as part of the verification process.

The survey information was added into the 3D model and aligned precisely with the OS coordinate system. '3D' Cameras (or perspective views) were then created within 3DS Max at each of the viewpoint locations and raised by 1.6m to match the position at eye-level that was achieved during photography.

3D control points were created to match those visible in each of the panoramas and positioned according to the survey data. Any atmospheric conditions experienced at the time of taking the photograph were added to the model. For example, haze or reflected sunlight.

Using the '3D' camera each 90° cylindrical panorama was used as a backdrop and rendered using a VRay camera option that mirrors the distortion exhibited in a cylindrical panorama. Adjustments were then made to the camera angle to align the 3D control points with the real-life equivalents shown in each panorama, thus creating a 'photo-matched' viewpoint with the model aligned at the correct scale and angle.

A daylight system was then created within 3DS Max using the geographic location and time zone, then setting the correct time that the viewpoint was captured. This allows for the accurate creation of shadows as at the time of taking the photograph. For viewpoints taken in full cloud, a High Dynamic Range Image (HDRI) was mapped as a 'dome light' within 3DS Max and used as the main light source. An HDRI is an image format that contains a large amount of shadow and highlight information and can be used to illuminate a 3D scene, providing a good representation of conditions on a cloudy day.

Post production

Care was taken in Adobe Photoshop to mask out elements of the 3D model that may be obscured by foreground objects to produce the final visualisations.

The final visualisations were then taken back into PT Gui Pro and converted to 53.5° rectilinear (or planar) panoramas. These panoramas were aligned according to the latest LI and SNH guidance

and presented at A3 and A1 page width, which allows for a comfortable arm's length viewing distance.

Caveats

- i. A photomontage can never be considered as a 100% accurate representation of what would be seen due to the large number of variables affecting the images from the photography to the limitations of the 3D programs. They should be used as an aid to the decision making process.
- ii. Photomontages have been presented at 90° cylindrical panoramas as well as 53.5° 150% magnified views to allow an overview of the context in the viewpoints due to the proximity and scale of the site.
- iii. 3D vegetation was used to control the vegetation height shown at Year 1 and Year 10. Whilst it is not possible to accurately predict vegetation height at a given age due to site conditions/weather we can offer an 'average' growth height based on the stock that has been proposed.

References

All photomontages were created in accordance with recommendations given in the following publications:

Landscape Institute and IEMA (2013) Guidelines for Landscape and Visual Impact Assessment 3rd edition (GLVIA3).

Landscape Institute:

Note 06/19 - Visual Representation of Development Proposals

Note 07/19 - Visual Representation of Development Proposals: Glossary and Abbreviations

Note 08/19 - Visual Representation of Development Proposals: Camera Auto Settings

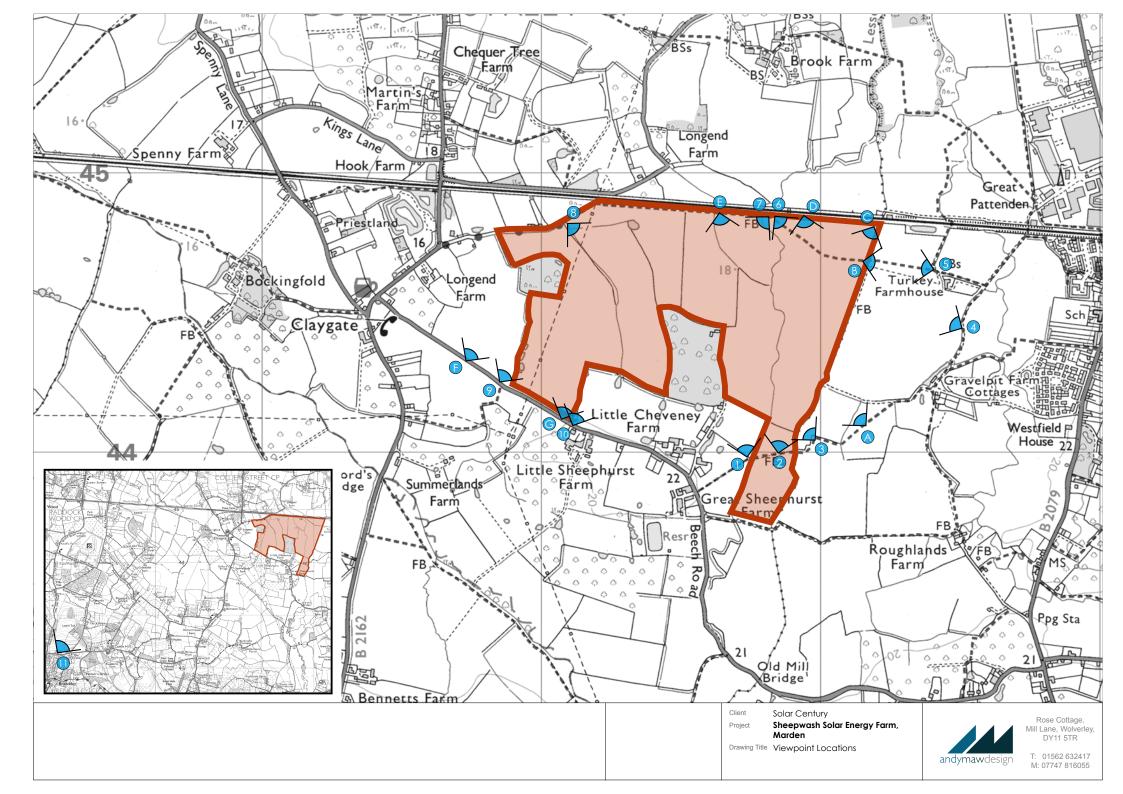
Scottish Natural Heritage (2017) Visual representation of windfarms: good practice guidance. ('SNH 2017')

Proje

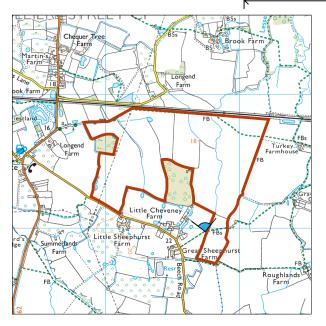
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Drawing Title Methodology









Extent of 53.5° planar panorama

Viewpoint Location

Distance to nearest building: 115m Bearing to site centre: 345' Viewpoint grid reference: 57273' Viewpoint ground height: 19.70n Camera Height (AGL) 1.6m Horizontal Field of View: 90' (C

115m 345° 572739.043 E 143964.767 N 19.70m 1.6m 90° (Cylindrical Projection) Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type: 08/07/2021 10:34 Canon 5D MkIV Canon, 50mm, f/1.2L Type 1

Rev: -Scale: -Drawn: AM Checked: AW

Sheet Size: A3 Landscape

Client Solar Century

Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 1 - Existing

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Fig

90° cylindrical projection in the above panorama showing the existing view. For context purposes

Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 115m Bearing to site centre: 345° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572739.043 E 143964.767 N 19.70m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 10:34 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

Scale: Drawn: Checked:

Sheet Size: A3 Landscape

Client Solar Century

Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 1 - Existing baseline photograph - Proposed development at Year 1



Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 115m Bearing to site centre: 345° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572739.043 E 143964.767 N 19.70m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 10:34 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

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Client Solar Century Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 1 - Existing baseline photograph - Proposed development at Year 10

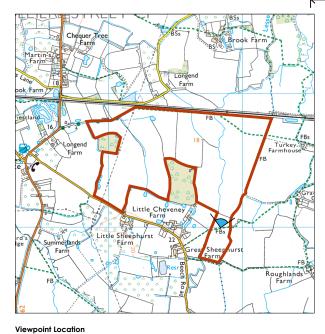
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Extent of 53.5° planar panorama

Notes:

Fig

90° cylindrical projection in the above panorama showing the existing view. For context purposes only.

Distance to nearest building:
Bearing to site centre:
Viewpoint grid reference:
Viewpoint ground height:
Camera Height (AGL)
Horizontal Field of View:
90° (C

337* 572809.573 E 143991.04 N 19.09m 1.6m 90* (Cylindrical Projection) Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type: 08/07/2021 10:55 Canon 5D MkIV Canon, 50mm, f/1.2L Type 1

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Drawing Title Viewpoint 2 - Existing



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Distance to nearest building:
Bearing to site centre:
Viewpoint grid reference:
Viewpoint ground height:
Camera Height (AGL)
Horizontal Field of View:
90° (C

50m 337* 572809.573 E 143991.04 N 19.09m 1.6m 90* (Cylindrical Projection) Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type: 08/07/2021 10:55 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

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Client

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Drawing Title Viewpoint 2 - Existing baseline photograph - Proposed development at Year 1

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Distance to nearest building: 50m Bearing to site centre: 337° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572809.573 E 143991.04 N 19.09m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 10:55 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

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Client

Solar Century Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 2 - Existing baseline photograph - Proposed development at Year 10

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572967 E 144071 N 08/07/2021 11:44 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 3 - Photograph

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Rose Cottage, Mill Lane, Wolverley, DY11 5TR



572967 E 144071 N 08/07/2021 12:13 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Project

Sheepwash Solar Energy Farm, Marden Drawing Title Viewpoint 4 - Photograph

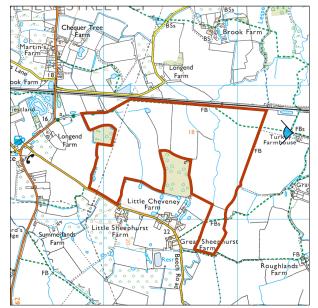
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Fig

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Distance to nearest building: 304m
Bearing to site centre: 258'
Viewpoint grid reference: 57341c
Viewpoint ground height: 17.79n
Camera Height (AGL)
Horizontal Field of View: 90' (C

Viewpoint Location

304m 258* 573416.243 E 144671.375 N 17.79m 1.6m 90* (Cylindrical Projection) Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type: 08/07/2021 12:00 Canon 5D MkIV Canon, 50mm, f/1.2L Type 1

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Client Solar Century
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Drawing Title Viewpoint 5 - Existing

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Fig

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90° cylindrical projection in the above panorama showing the existing view. For context purposes

Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 304m Bearing to site centre: 258* Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

573416.243 E 144671.375 N 17.79m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 12:00 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

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Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 5 - Existing baseline photograph - Proposed development at Year 1



Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 304m
Bearing to site centre: 258*
Viewpoint grid reference: 57341.
Viewpoint ground height: 17.79n
Camera Height (AGL)
Horizontal Field of View: 90° (C

304m 258* 573416.243 E 144671.375 N 17.79m 1.6m 90* (Cylindrical Projection) Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type: 08/07/2021 12:00 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

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rawing Title Viewpoint 5 - Existing ba photograph - Proposed development at Year 10

Client Solar Century
Project Sheepwash Solar Energy Farm,

Project Sheepwash Solar Energy Farm,
Marden

Drawing Title Viewpoint 5 - Existing baseline

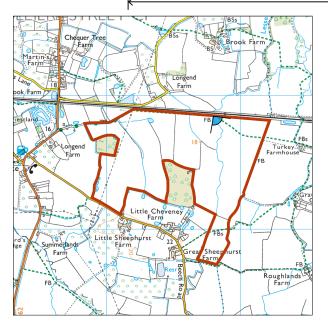
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Rose Cottage, Mill Lane, Wolverley, DY11 5TR









Extent of 53.5° planar panorama

Viewpoint Location

Distance to nearest building: 85m Bearing to site centre: 211* Viewpoint grid reference: 57275 Viewpoint ground height: Camera Height (AGL) 1.6m Horizontal Field of View: 90° (C

211° 211° 572797.461 E 144852.858 N 17.67m 1.6m 90° (Cylindrical Projection) Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type: 08/07/2021 12:41 Canon 5D MkIV Canon, 50mm, f/1.2L Type 1

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Sheet Size: A3 Landscape

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Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 6 - Existing

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Fig

18

90° cylindrical projection in the above panorama showing the existing view. For context purposes

Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 85m Bearing to site centre: 211° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572797.461 E 144852.858 N 17.67m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 12:41 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

Scale: Drawn: Checked:

Sheet Size: A3 Landscape

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Drawing Title Viewpoint 6 - Existing baseline photograph - Proposed development at Year 1

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Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 85m Bearing to site centre: 211° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572797.461 E 144852.858 N 17.67m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 12:41 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

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Sheet Size: A3 Landscape

Client Solar Century

Sheepwash Solar Energy Farm, Marden

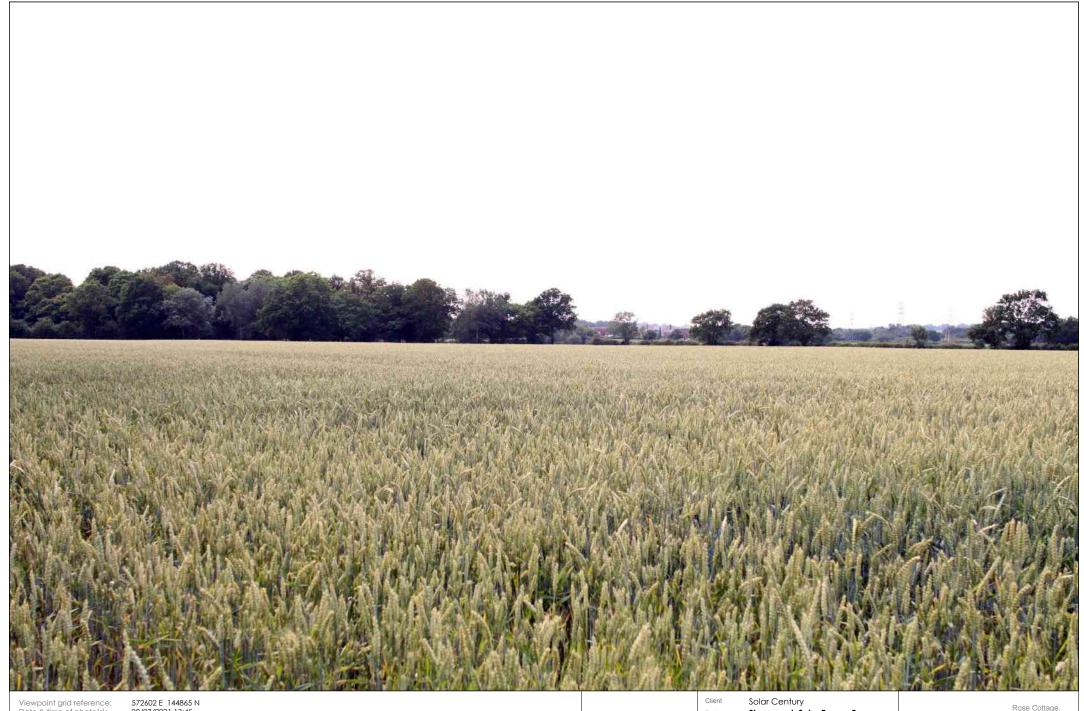
Drawing Title Viewpoint 6 - Existing baseline photograph - Proposed development at Year 10

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Rose Cottage, Mill Lane, Wolverley, DY11 5TR







572602 E 144865 N 08/07/2021 13:45 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 7 - Photograph

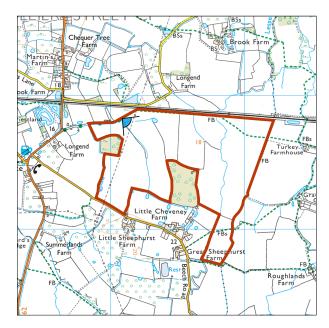
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Fig

23

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Extent of 53.5° planar panorama

Fig

24

90° cylindrical projection in the above panorama showing the existing view. For context purposes

Viewpoint Location

Distance to nearest building: 105m Bearing to site centre: 123° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572088.775 E 144826.646 N 16.37m 1.6m

90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 13:39 Canon 5D MkIV Canon, 50mm, f/1.2L Type 1

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Drawing Title Viewpoint 8 - Existing

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Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 105m Bearing to site centre: 123° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572088.775 E 144826.646 N 16.37m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 13:39 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

Scale: Drawn: Checked:

Sheet Size: A3 Landscape

Client Solar Century

Sheepwash Solar Energy Farm, Marden

Drawing Title Viewpoint 8 - Existing baseline photograph - Proposed development at Year 1

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Rose Cottage, Mill Lane, Wolverley, DY11 5TR





Distance to nearest building: 105m Bearing to site centre: 123° Viewpoint grid reference: Viewpoint ground height: Camera Height (AGL) Horizontal Field of View:

572088.775 E 144826.646 N 16.37m 90° (Cylindrical Projection)

Date & time of photo(s): Camera: Lens, FL, max aperture: LI Image Type:

08/07/2021 13:39 Canon 5D MkIV Canon, 50mm, f/1.2L Type 4

Scale: Drawn: Checked:

Sheet Size: A3 Landscape

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Drawing Title Viewpoint 8 - Existing baseline photograph - Proposed development at Year 10

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571857 E 144250 N 08/07/2021 14:59 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Drawing Title Viewpoint 9 - Photograph

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Fig

29

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



572100 E 144111 N 08/07/2021 15:08 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Drawing Title Viewpoint 10 - Photograph

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Fig

30

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



568169 E 142283 N 08/07/2021 17:14 Canon 5D MkIV Canon, 50mm, f/1.2L Type 1

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Drawing Title Viewpoint 11 - Photograph

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Fig

31

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Plates





573177 E 144081 N 08/07/2021 11:50 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Sheepwash Solar Energy Farm, Marden

Drawing Title Plate A - Photograph



Fig

32

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



573167 E 144690 N 08/07/2021 12:54 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Sheet Size: A3 Landscape

Client Solar Century

Drawing Title Plate B - Photograph

Sheepwash Solar Energy Farm, Marden

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Rose Cottage, Mill Lane, Wolverley, DY11 5TR



573198 E 144790 N 08/07/2021 12:55 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Sheepwash Solar Energy Farm, Marden

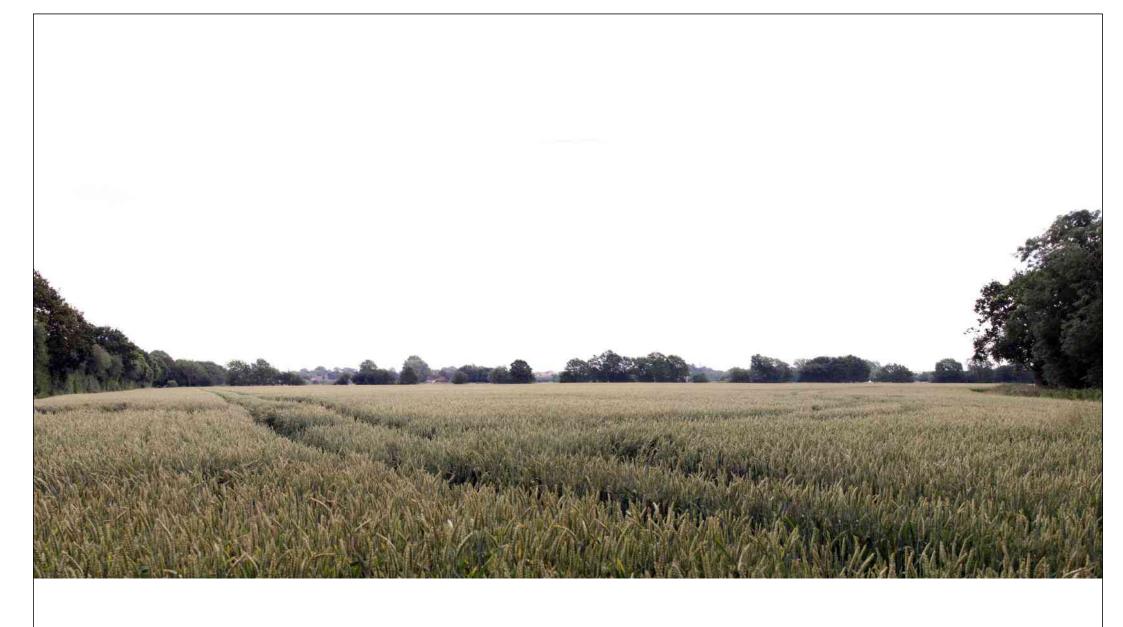
Drawing Title Plate C - Photograph

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Fig

34

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



572918 E 144840 N 08/07/2021 13:28 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Sheet Size: A3 Landscape

Client Solar Century

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Drawing Title Plate D - Photograph



Fig

35

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



572712 E 144858 N 08/07/2021 13:27 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Drawing Title Plate E - Photograph

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Fig

36

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



571769 E 144313 N 08/07/2021 14:54 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Drawing Title Plate F - Photograph

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Fig

37

Rose Cottage, Mill Lane, Wolverley, DY11 5TR



572078 E 144124 N 08/07/2021 15:05 Canon EOS 500D Sigma, 30mm, f/1.4 Type 1

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Drawing Title Plate G - Photograph



Fig

38

Rose Cottage, Mill Lane, Wolverley, DY11 5TR