Photograph 12 View from Poulters Lane adjacent to the north west corner of the Site looking south east

Visualisation Type 4 - Existing View
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 06:52
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.210355, 0.668295
Viewpoint altitude 94m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 3m
Looking direction: South east

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Project	Whepstead – River Linnet Solar	Drawing No.	CSA/7421/105	
Drawing Title	Type 4 Visualisations	Date	August 2025	
Client	Dalcour Maclaren	Drawn TV	Checked BS	Rev A

Photomontage from Viewpoint 12 - Year 1 View from Poulters Lane adjacent to the north west corner of the Site looking south east

Visualisation Type 4 - Proposed View Year 1
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 06:52
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.210355, 0.668295
Viewpoint altitude 94m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 3m
Looking direction: South east

Note :

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Photomontage from Viewpoint 12 - Year 15 View from Poulters Lane adjacent to the north west corner of the Site looking south east

Visualisation Type 4 - Proposed View Year 15
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 06:52
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.210355, 0.668295
Viewpoint altitude 94m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 3m
Looking direction: South east

Note :

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Photograph 17 View from Whepstead Road adjacent to the north east corner of the Site looking south west

Visualisation Type 4 - Existing View
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 07:42
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.208744, 0.682998
Viewpoint altitude 89m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 458m
Looking direction: South west

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Drawing Title	Type 4 Visualisations	Date	August 2025	
Client	Dalcour Maclaren	Drawn TV	Checked BS	Rev A

Photomontage from Viewpoint 17 - Year 1 View from Whepstead Road adjacent to the north east corner of the Site looking south west

Visualisation Type 4 - Proposed View Year 1
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 07:42
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.208744, 0.682998
Viewpoint altitude 89m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 458m
Looking direction: South west

Note :

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Photomontage from Viewpoint 17 - Year 15 View from Whepstead Road adjacent to the north east corner of the Site looking south west

Visualisation Type 4 - Proposed View Year 15
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 07:42
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.208744, 0.682998
Viewpoint altitude 89m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 458m
Looking direction: South west

Note :

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Drawing Title	Type 4 Visualisations	Date	August 2025	
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Photograph 20 View from Chedburgh Road looking north towards the Site

Visualisation Type 4 - Existing View
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 08:46
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.197692, 0.667566
Viewpoint altitude 104.5m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 255m
Looking direction: North

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Project	Whepstead – River Linnet Solar	Drawing No.	CSA/7421/105	
Drawing Title	Type 4 Visualisations	Date	August 2025	
Client	Dalcour Maclaren	Drawn TV	Checked BS	Rev A

Photomontage from Viewpoint 20 - Year 1 View from Chedburgh Road looking north towards the Site

Visualisation Type 4 - Proposed View Year 1
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 08:46
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.197692, 0.667566
Viewpoint altitude 104.5m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 255m
Looking direction: North

Note :

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Drawing Title	Type 4 Visualisations	Date	August 2025	
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Photomontage from Viewpoint 20 - Year 15 View from Chedburgh Road looking north towards the Site

Visualisation Type 4 - Proposed View Year 15
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 08:46
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.197692, 0.667566
Viewpoint altitude 104.5m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 255m
Looking direction: North

Note :

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Photograph 25 View from Bury Road looking north west towards the Site

Visualisation Type 4 - Existing View
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 08:24
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.193565, 0.681396
Viewpoint altitude 99m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 1031m
Looking direction: North west

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Project	Whepstead – River Linnet Solar	Drawing No.	CSA/7421/105	
Drawing Title	Type 4 Visualisations	Date	August 2025	
Client	Dalcour Maclaren	Drawn TV	Checked BS	Rev A

Photomontage from Viewpoint 25 - Year 1 View from Bury Road looking north west towards the Site

Visualisation Type 4 - Proposed View Year 1
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 08:24
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.193565, 0.681396
Viewpoint altitude 99m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 1031m
Looking direction: North west

Note :

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Photomontage from Viewpoint 25 - Year 15 View from Bury Road looking north west towards the Site

Visualisation Type 4 - Proposed View Year 15
Cylindrical projection
48% @ A3, 96% @ A1
02.07.2025, 08:24
Canon 5D Mk4 1.6x, Canon EOS 50mm
HfoV 90°
Viewpoint Location (Lat, Long): 52.193565, 0.681396
Viewpoint altitude 99m AOD plus 1.5m (approx, rounded to nearest 0.5m)
Location data based on Leica GS18T GPS & Google Earth
Distance to closest boundary edge (approx): 1031m
Looking direction: North west

Note :

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Appendix A: CGEye methodology

Qualifications

1.0 CGEye Ltd was founded in 2004 and is established as one of the most experienced studios in the UK producing high-quality visuals for marketing and planning. We are experts in 3d modelling and post-production. All work on survey-verified views (AVR's) is led by the founding Director Paul Smith.

1.1 It is a private company employing 8 staff with a team of highly experienced CG Artists qualified to degree level.

1.2 We have been producing AVR's for over 15 years, and in that time have helped with planning applications and appeals for many infrastructure projects for Scottish and Welsh Power in England, Scotland and Wales, a number of solar farm applications around the UK, and numerous private housing LVIAs for some of the UK's biggest housebuilders. We have also worked in this area for warehousing projects, water treatment works and Grain storage facilities. Our work is carried out in line with current Landscape Institute guidelines.

Work commissioned

2.1 CGEye was commissioned by CSA Environmental.

2.2 The model used for the project was created by CGEye Ltd using a standard Solar array design, set to a height of 3 Metres.

Choice of simulation technique & media used

3.1 A photomontage is best described as a hybrid view combining base photography and cgi overlays. The intention is to represent the finished built environment as closely as possible, although no media can currently reproduce the human experience of viewing a scene. There is no method of analysis or representation that will accurately summarise every lighting, material, social, sensory or climatic condition.

3.2 The photomontage used here is optimised to show:

a) Visual impact of proposed solar farm.
b) Planting mitigation & screening over 1 & 15 years.

3.3 All views were produced from single frame shots and compiled into panoramic views at Year 1. The resulting panoramas were used to produce the Year 15 variants.

Appendix A: CGEye methodology

Photography

4.1 Photography was carried out using the following equipment to meet LI type 4 specification.

Body: Canon EOS 5D Mk 4

Lens: 50mm fixed (Canon EF 50mm f/1.2L USM).

4.2 Photos were recorded in both Jpg and Raw (CR2) format so that any necessary adjustments to colour balance, white balance, exposure etc. could be made in post-production without a compromise in quality.

4.3 Photos were taken using a tripod set at a recorded height from the ground and levelled using an in-built bubble- level. A plumb bob was suspended from the central shaft to locate the ground position of the camera so that the surveyor could record the exact locations.

4.4 A series of photos were recorded from the same setup that cover a wider panoramic view when stitched. All were recorded with at least a 40% overlap to minimise vertical distortion when stitched.

Figs: 1 & 2 Single-frame base photo as shot, showing ground stakes and other features used to assist with alignment of model.

Appendix A: CGEye methodology

Surveying

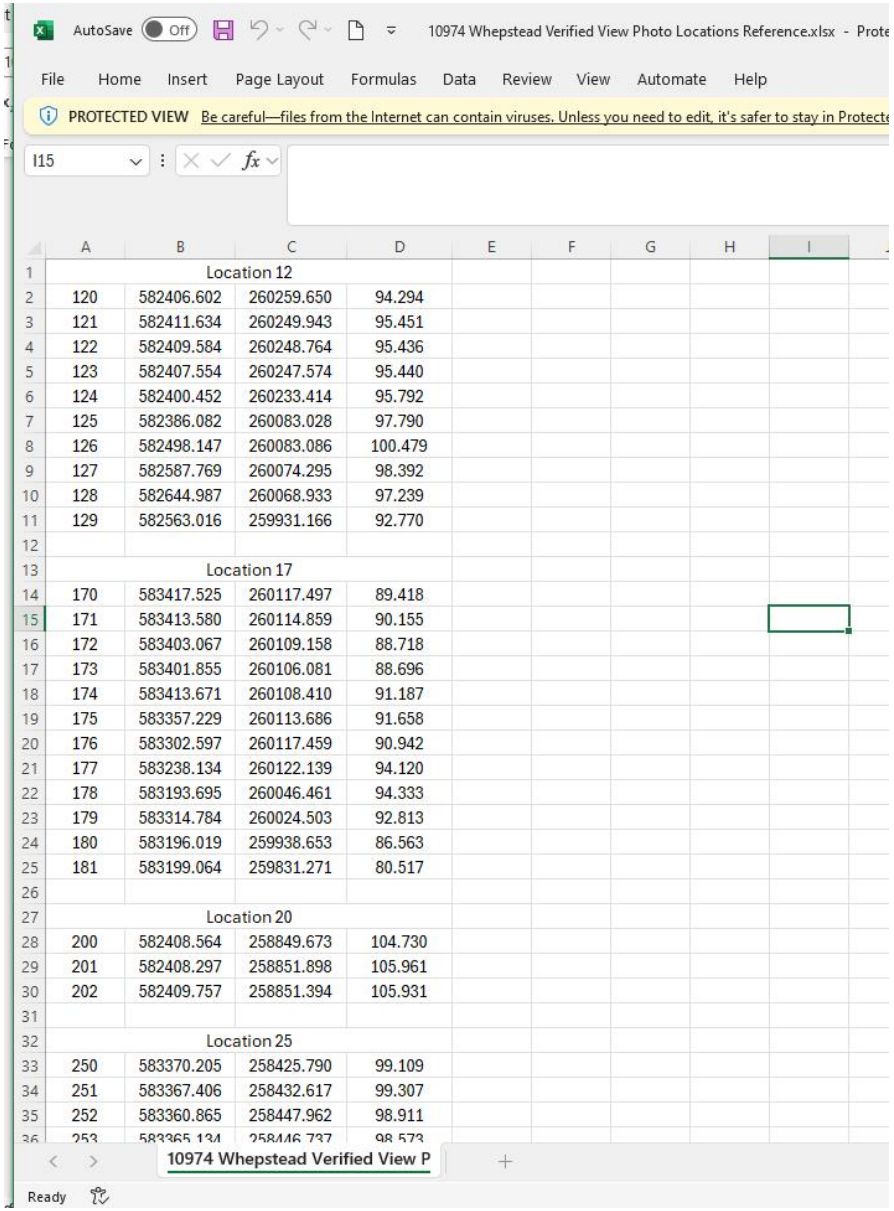
5.1 Processed data delivery

Survey data was supplied by Wintech as a 3d .DWG file and excel spreadsheet.

Using a Leica GS18T with tilt function, a survey station control baseline was set up from GPS observations and related to Ordnance Survey(OS) National Grid(OSGB36) using the OS RTK Active Network (OS Net). All levels relate to OS datum (GPS).

From this baseline, the camera position and 5 or more points of detail within the photo frame were measured and these 3D coordinates were recorded.

The professional surveying equipment employed delivers sub-cm positional accuracy suitable for LI TGN 06/19 compliant 'Type 4 survey-verified' photography and photomontage work.



	A	B	C	D
1		Location 12		
2	120	582406.602	260259.650	94.294
3	121	582411.634	260249.943	95.451
4	122	582409.584	260248.764	95.436
5	123	582407.554	260247.574	95.440
6	124	582400.452	260233.414	95.792
7	125	582386.082	260083.028	97.790
8	126	582498.147	260083.086	100.479
9	127	582587.769	260074.295	98.392
10	128	582644.987	260068.933	97.239
11	129	582563.016	259931.166	92.770
12				
13		Location 17		
14	170	583417.525	260117.497	89.418
15	171	583413.580	260114.859	90.155
16	172	583403.067	260109.158	88.718
17	173	583401.855	260106.081	88.696
18	174	583413.671	260108.410	91.187
19	175	583357.229	260113.686	91.658
20	176	583302.597	260117.459	90.942
21	177	583238.134	260122.139	94.120
22	178	583193.695	260046.461	94.333
23	179	583314.784	260024.503	92.813
24	180	583196.019	259938.653	86.563
25	181	583199.064	259831.271	80.517
26				
27		Location 20		
28	200	582408.564	258849.673	104.730
29	201	582408.297	258851.898	105.961
30	202	582409.757	258851.394	105.931
31				
32		Location 25		
33	250	583370.205	258425.790	99.109
34	251	583367.406	258432.617	99.307
35	252	583360.865	258447.962	98.911
36	253	583365.134	258446.737	98.573

Fig3: Sample from Surveyors data sheet as excel file.

Appendix A: CGEye methodology

3D Modelling and view verification

6.1 CGEye Ltd Created a model of the solar arrays and positioned them using the layout plan provided. Using topographical survey drawings of the area and finished levels we were able to correctly place the model in real-world space, in Eastings, Northings and vertical height.

6.2 The survey files containing the co-ordinates for the control points were supplied to us as a 3D CAD file and a spreadsheet and we imported this information into our 3d software.

6.3 Next, we placed the required photograph as a background image in our software and placed a 'virtual' camera at the co-ordinates recorded at the site visit (i.e. at the position of the pin/marker representing the location of the real camera). The camera settings (focal length) and height above ground were adjusted to match those of the real camera.

6.4 We then could see the imported control points in 3d space, and all that was then required was to adjust the roll and tilt of the virtual camera so that those points matched the corresponding references in the photo.

(See Appendix C)

Appendix A: CGEye methodology

Post-Production

7.1 The aligned 3d model was rendered at the same resolution and aspect ratio as the base photos. Rendering was done with full material detail**.** Verified views have to be compiled from single frame shots. For the wider panoramas it was necessary to set up 3 x single verified views, then stitch the composite images together afterwards.

7.2 The anticipated screening at years 1 & 15 was shown for each location. The landscaping and planting plans were used as a guide for this.

7.3 Because of the organic and unpredictable nature of vegetation growth, the growth patterns are estimated based on expected density and usual growth of species type. Viewing foreshortening is also taken in to account.

Images should be presented to a scale matching the LI TGN 06/19 definition of a 100% reference image. This equates to presenting a single frame (from a full frame sensor SLR camera with a 50mm lens) at 390mm x 260mm (fitting on an A3 sheet). A 39.6° horizontal field of view is presented for correct viewing at a comfortable arm's length. Specifically, this creates an image that is correctly scaled (mathematically) when viewed at 542mm from the eye.

Fig 4: single frame verified views and resulting stitched panorama

Appendix B: Survey information & technical details

View No	location	season	style	Tripod height	Single/ pano	Horizontal FOV	Vertical FOV	Lens	Date	Time	Eastings	Northings	Elevation (mAOD)	Eye level (mAOD)	Distance to nearest boundary	Bearing
LOC 12	Poulters Lane to NW corner of site	Summer Clear and sunny	Full rendered	1.59 M	Single/ pano	39° (single frame)	26.9° (single frame)	50mm	02/07/25	06:52am	582406.602m	260259.65m	94.294	1.59m	3m	151°
LOC 17	Whepstead Road to East of site	Summer Clear and sunny	Full rendered	1.60 M	Single/ pano	39° (single frame)	26.9° (single frame)	50mm	02/07/25	07:42am	583417.525m	260117.497m	89.418m	1.60m	458m	235°
LOC 20	Chedburgh Road to South of site	Summer Clear and sunny	Full rendered	1.62 M	Single/ Pano	39° (single frame)	26.9° (single frame)	50mm	02/07/25	08:46am	582408.564m	258849.673m	104.73m	1.62m	255m	14°
LOC 25	Bury Road to SE of site	Summer Clear and sunny	Full rendered	1.56 M	Single/ Pano	39° (single frame)	26.9° (single frame)	50mm	02/07/25	08:24am	583370.205m	258425.79m	99.109	1.56m	1031m	329°

Appendix C: Verified setup – Viewport captures

Fig 5: Base photo showing surveyors control points (yellow crosses) aligned with ground stakes and telegraph poles.

Fig 6: View with proposals shown in place prior to rendering.