



Proposed Solar Farm - Nova Energy, Mackenzie Basin
Appendix 3: Visual Simulations

1 May 2026

Nova Energy Ltd

**Proposed Solar Farm,
Mackenzie Basin,
Twizel**

Virtual View

Photo Simulation Information



VIRTUALVIEW
3D VISUALISATION SPECIALISTS

INFORMATION FOR THE PREPARATION OF THE PHOTO SIMULATIONS

1. Virtual View was engaged by Nova Energy Ltd to produce visual simulations of the proposed solar farm in the Mackenzie basin, Twizel. The simulations have been produced from various viewpoints and show the solar farm at various times of day.

2. To create the 3D model for the simulations, Virtual View used the below data:
 - A. Viewpoint locations were chosen by Paul Smith of Rough Milne Mitchell Landscape Architects Ltd (RMM).
 - B. Viewpoint locations were surveyed by Virtual View Ltd using a hand-held Leica Zeno FLX100 GPS. The accuracy of the positions taken was 2cm.
 - C. Terrain data was downloaded from Land Information New Zealand. The terrain data included 1m Lidar digital surface model (DSM), 1m Lidar digital elevation model (DEM) and the New Zealand 8m DEM. Aerial photographs were also downloaded from Land Information New Zealand.
 - D. The above terrain data was used to make a 0.5m DEM terrain model for the site and surrounding area. A 0.5m DSM terrain model was also created to assist with camera alignment and foreground vegetation identification.
 - E. Nova Energy Ltd provided the specifications for the solar panel sizes, table layouts and the overall site plan.
 - The solar panel module size is simulated at 2384mm high by 1303mm wide.
 - Solar panels are fixed to a single axis tracking table in portrait orientation. The table rotates 60 degrees + and -.
 - 2 x table layouts were simulated. Table layout 1 has 86 panels and table layout 2 has 57 panels. The solar panels are in portrait orientation with 1 module vertically.
 - Panel tables are spaced as per the supplied plans.
 - The front edge of the solar panels is 0.8m above ground level when tilted to 60 degrees.
 - F. From the overall site plan roads, transmission lines, inverter power stations and water tanks were also added to the 3D model.

G. The solar panels have been rotated horizontally at 10 degree increments to align with the sun angle and azimuth at the corresponding time of day.

0 degrees = Parallel to the ground surface.

Negative degrees = Facing east.

Positive degrees = Facing west.

Below are the angles for each viewpoint:

- Viewpoint 03 = +60 degrees
- Viewpoint 05 = +50 degrees
- Viewpoint 07 = +40 degrees
- Viewpoint 11 = +40 degrees
- Viewpoint 12 = +30 degrees
- Viewpoint 14 = +20 degrees
- Viewpoint 17 = -30 degrees
- Viewpoint 18 = -30 degrees
- Viewpoint 20 = -40 degrees
- Viewpoint 21 = -50 degrees



Overview of the 3D model, showing the digital terrain model with the solar panel layout.



Close-up view of the 3D model solar components.



VIRTUALVIEW
3D VISUALISATION SPECIALISTS

METHODOLOGY FOR THE PREPARATION OF PHOTO SIMULATIONS

September 2024

1.0 Overview

The main objective of a photo simulation is to provide an image that, as realistically as possible, conveys the modification or change caused by a proposed activity. The most appropriate technical methodology has been applied to ensure the accuracy of what is depicted, in terms of its relative position, elevation, scale, and appearance. Photo simulations can never replace the real experience of being at a location, but they are a useful tool to assist in the decision making process. To achieve a photo simulation, a 3D model is rendered into a series of two-dimensional photographs.

2.0 On-Site Photography and Reference Points

A series of photographs are taken from a specified location using a full-frame Digital SLR Camera with a 50mm lens. The camera is mounted to a tripod with a panoramic head to ensure a consistent overlap of approximately 40%.

Reference Points are also identified during the site visit. Reference points are fixed objects that are selected from within the captured photos. Reference points can include, but are not limited to, objects such as fences, buildings, trees and road signs. These objects help to accurately align the 3D model within the simulation software.

The reference points and photo position (or camera location) is accurately survey marked by using a professional surveyor or using professional survey equipment.



On Site photography - survey marked camera location.



Reference points identified and surveyed which are used for camera alignment.

3.0 Creating the Photo Panoramic

The photos captured from the site visit are then selected. Five photos from each viewpoint are used. The selected photos are colour matched to ensure consistency throughout the image and manually stitched together to form a photo panoramic. The panoramic image is then cropped to create the 124° wide panorama.



The photos are colour matched and stitched together to form a panoramic image



The completed panoramic image

4.0 The Photo Simulation Process

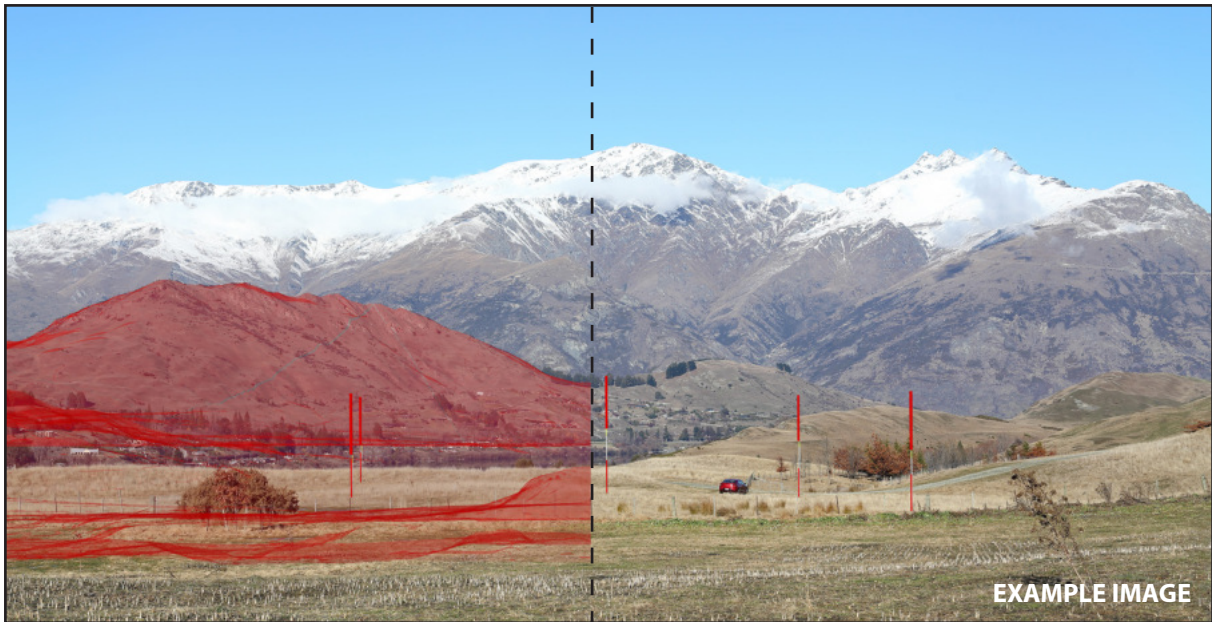
Within the simulation software the next step is to create the 3D computer model.

A series of 3D computer cameras are created. These cameras are positioned accurately to the corresponding survey marked photo position from where the photos were taken on the site visit. The computer camera depicts a real world camera, including matching the focal length of the 50mm lens.

Reference points surveyed from the site visit are then imported. Reference points within the simulation software will generally be represented as extruded cylinders.

Digital Elevation Model (DEM), Lidar data and contour data is used to create a digital terrain model of the site and surrounding area.

To replicate the 3D view through the real world camera, it is necessary to match the digital terrain model and reference points to the respective land-form and physical objects in the photo - thus ensuring an accurate horizontal and vertical alignment.



Digital terrain model and reference points used for camera alignment.

5.0 Adding The Proposed Development

The digital 3D model of the proposed development and associated design surfaces such as roads are accurately created. 3D landscaping and vegetation are created to the correct specifications.

A sunlight system is created which follows the geographically correct angle and movement of the sun over the earth at a given location. Location, date, time and compass orientation are matched to the on-site photography which allows the simulated model to reflect actual lighting conditions.

Within the 3D software, the new image is rendered containing the accurately positioned 3D model over top of the original photograph.



3D model rendered and accurately positioned in photograph

6.0 Photo Editing

Photo editing software is used to composite the proposed development. Using a combination of the digital terrain model and aerial photography the proposed development is masked into the original photo so that it appears behind any existing landforms and foreground vegetation. Proposed landscaping and vegetation is added to the photos using the same process.



Rendered model is masked within the image to appear behind existing landforms and vegetation.



Proposed vegetation and landscaping is created in 3D, rendered and added.

The masked renders of the proposed development, landforms and landscaping are combined into the original panoramic image to complete the photo simulation.



Section of rendered development within full panorama.



The completed photo Simulation

7.0 Viewing The Photo Simulation

All photo simulations comply with the New Zealand Institute of Landscape Architects’ document: Visual Simulations Best Practice Guide 10.2.

For the resulting photo simulations, the viewing scale is 50 centimeters from the eye when printed at full scale A3. This scale produces an image that is 240mm high and is a comfortable viewing distance to hold at approximately an arm’s length, to appreciate what the view would be in real life. (Refer to Figure 1.0 below for viewing guide).

Viewing on a digital screen should be done tentatively as there are numerous variables such as screen size, zoom level and the application being used, that can affect the scale of what would be seen by the naked eye.

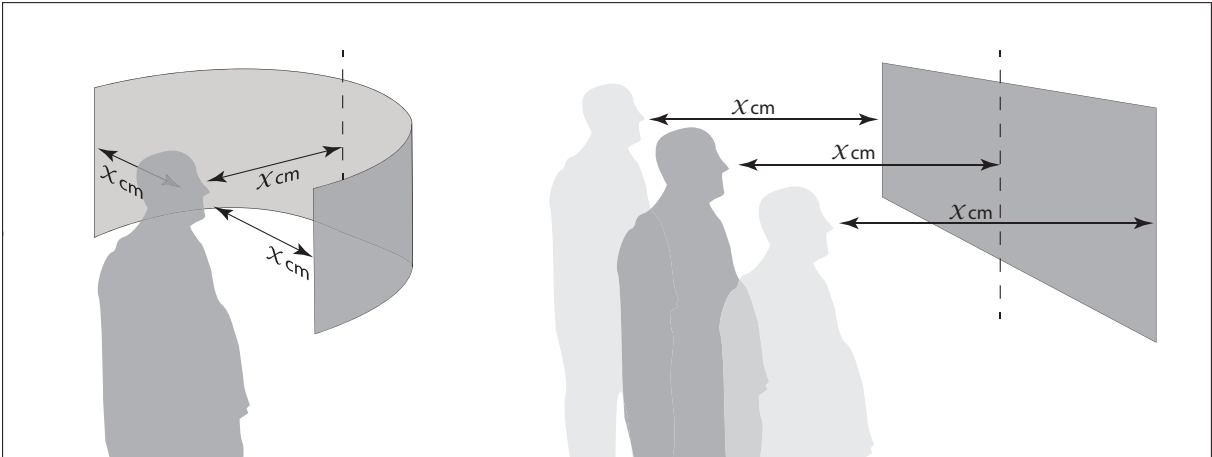


Fig 1.0 Viewing guide for printed photo simulations

Twizel Solar Plant - Photo Simulations



Viewpoint Location Map

Nova Energy Twizel Solar Plant



- Viewpoint 03
State Highway 8
(E)323519.963 (N)813823.618
- Viewpoint 05
Cnr of State Highway 8 and Max Smith Drive
(E)322750.194 (N)812803.596
- Viewpoint 07
Pukaki Canal Bridge Lookout
(E)322600.799 (N)812327.980
- Viewpoint 11
Mcaughtries Road
(E)322892.225 (N)811892.684
- Viewpoint 12
Ohau B
(E)324429.889 (N)811013.901
- Viewpoint 14
Mcaughtries Road
(E)324835.898 (N)810825.654
- Viewpoint 17
Mcaughtries Road
(E)328163.295 (N)808334.452
- Viewpoint 18
Mcaughtries Road
(E)328163.295 (N)808334.452
- Viewpoint 20
Ohau C
(E)330073.202 (N)806496.427
- Viewpoint 21
Falston Road
(E)330552.735 (N)805863.183





Viewpoint 03 - Existing



Viewpoint 03 - Proposed



Easting: 323519.963
 Northing: 813823.618
 Elevation : 461.808m
 Height of Camera : 1.5m
 Orientation of View : SE
 Date of Photography : 16 October 2024
 Time of Photography : 17:09pm

Nova Energy - Twizel Solar Plant
 Viewpoint 03 - State Highway 8

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 03 - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 323519.963
Northing: 813823.618
Elevation : 461.808m
Height of Camera : 1.5m
Orientation of View : SE
Date of Photography : 16 October 2024
Time of Photography : 17:09pm

Nova Energy - Twizel Solar Plant

Viewpoint 03 - State Highway 8

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 03 - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 323519.963
Northing: 813823.618
Elevation : 461.808m
Height of Camera : 1.5m
Orientation of View : SE
Date of Photography : 16 October 2024
Time of Photography : 17:09pm

Nova Energy - Twizel Solar Plant
Viewpoint 03 - State Highway 8

NOTES: All photos were taken by Virtual View with a Canon
5Dmk2 and a 50mm lens.
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Viewpoint 05 - Existing



Viewpoint 05 - Proposed



Easting: 322750.194
 Northing: 812803.596
 Elevation : 464.647m
 Height of Camera : 1.5m
 Orientation of View : SE
 Date of Photography : 16 October 2024
 Time of Photography : 16:34pm

Nova Energy - Twizel Solar Plant

Viewpoint 05 - Cnr of State Highway 8 and Max Smith Drive

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
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Viewpoint 05 - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322750.194
Northing: 812803.596
Elevation : 464.647m
Height of Camera : 1.5m
Orientation of View : SE
Date of Photography : 16 October 2024
Time of Photography : 16:34pm

Nova Energy - Twizel Solar Plant
Viewpoint 05 - Cnr of State Highway 8 and Max Smith Drive

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

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Date Printed: 02-12-2024





Viewpoint 05 - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322750.194
Northing: 812803.596
Elevation : 464.647m
Height of Camera : 1.5m
Orientation of View : SE
Date of Photography : 16 October 2024
Time of Photography : 16:34pm

Nova Energy - Twizel Solar Plant
Viewpoint 05 - Cnr of State Highway 8 and Max Smith Drive

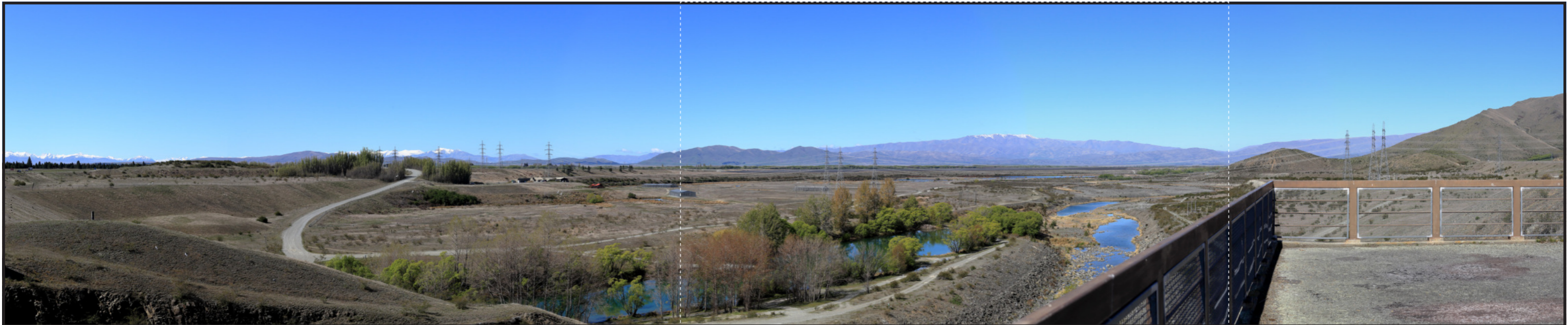
NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 07 - Existing



Viewpoint 07 - Proposed



Easting: 322600.799
 Northing: 812327.980
 Elevation : 464.062m
 Height of Camera : 1.5m
 Orientation of View : E
 Date of Photography : 16 October 2024
 Time of Photography : 15:42pm

Nova Energy - Twizel Solar Plant

Viewpoint 07 - Pukaki Canal Bridge Lookout

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 07 - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322600.799
Northing: 812327.980
Elevation : 464.062m
Height of Camera : 1.5m
Orientation of View : E
Date of Photography : 16 October 2024
Time of Photography : 15:42pm

Nova Energy - Twizel Solar Plant

Viewpoint 07 - Pukaki Canal Bridge Lookout

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

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Viewpoint 07 - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322600.799
Northing: 812327.980
Elevation : 464.062m
Height of Camera : 1.5m
Orientation of View : E
Date of Photography : 16 October 2024
Time of Photography : 15:42pm

Nova Energy - Twizel Solar Plant

Viewpoint 07 - Pukaki Canal Bridge Lookout

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Photo positions were surveyed by Virtual View Ltd.

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Viewpoint 11 - Existing



Viewpoint 11 - Proposed



Easting: 322892.225
 Northing: 811892.684
 Elevation : 463.312m
 Height of Camera : 1.5m
 Orientation of View : NE
 Date of Photography : 16 October 2024
 Time of Photography : 15:26pm

Nova Energy - Twizel Solar Plant
 Viewpoint 11 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

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Viewpoint 11a - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322892.225
Northing: 811892.684
Elevation : 463.312m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 15:26pm

Nova Energy - Twizel Solar Plant
Viewpoint 11 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
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Viewpoint 11a - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322892.225
Northing: 811892.684
Elevation : 463.312m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 15:26pm

Nova Energy - Twizel Solar Plant
Viewpoint 11 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
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Viewpoint 11b - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322892.225
Northing: 811892.684
Elevation : 463.312m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 15:26pm

Nova Energy - Twizel Solar Plant
Viewpoint 11 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
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Viewpoint 11b - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 322892.225
Northing: 811892.684
Elevation : 463.312m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 15:26pm

Nova Energy - Twizel Solar Plant
Viewpoint 11 - Mcaughtries Road

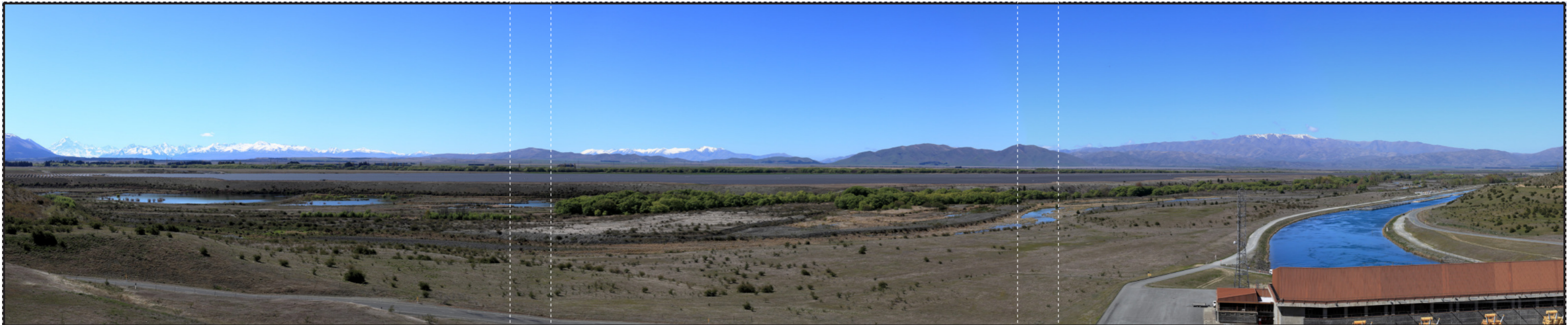
NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

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Viewpoint 12 - Existing



Viewpoint 12 - Proposed



Easting: 324429.889
 Northing: 811013.901
 Elevation : 463.204m
 Height of Camera : 1.5m
 Orientation of View : NE
 Date of Photography : 16 October 2024
 Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant
 Viewpoint 12 - Ohau B

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 12a - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324429.889
Northing: 811013.901
Elevation : 463.204m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant

Viewpoint 12 - Ohau B

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Viewpoint 12a - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324429.889
Northing: 811013.901
Elevation : 463.204m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant

Viewpoint 12 - Ohau B

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Viewpoint 12b - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324429.889
Northing: 811013.901
Elevation : 463.204m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant

Viewpoint 12 - Ohau B

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Viewpoint 12b - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324429.889
Northing: 811013.901
Elevation : 463.204m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant

Viewpoint 12 - Ohau B

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Viewpoint 12c - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324429.889
Northing: 811013.901
Elevation : 463.204m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant

Viewpoint 12 - Ohau B

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Viewpoint 12c - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324429.889
Northing: 811013.901
Elevation : 463.204m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:48pm

Nova Energy - Twizel Solar Plant

Viewpoint 12 - Ohau B

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Viewpoint 14 - Existing



Viewpoint 14 - Proposed



Easting: 324835.898
 Northing: 810825.654
 Elevation : 419.02m
 Height of Camera : 1.5m
 Orientation of View : NE
 Date of Photography : 16 October 2024
 Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
 Viewpoint 14 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 14a - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324835.898
Northing: 810825.654
Elevation : 419.02m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
Viewpoint 14 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
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Viewpoint 14a - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324835.898
Northing: 810825.654
Elevation : 419.02m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
Viewpoint 14 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 14b - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324835.898
Northing: 810825.654
Elevation : 419.02m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
Viewpoint 14 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

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Viewpoint 14b - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324835.898
Northing: 810825.654
Elevation : 419.02m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
Viewpoint 14 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

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Viewpoint 14c - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324835.898
Northing: 810825.654
Elevation : 419.02m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
Viewpoint 14 - Mcaughtries Road

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Viewpoint 14c - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 324835.898
Northing: 810825.654
Elevation : 419.02m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 14:27pm

Nova Energy - Twizel Solar Plant
Viewpoint 14 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 17 - Existing



Viewpoint 17 - Proposed



Easting: 328163.295
 Northing: 808334.452
 Elevation : 413.42m
 Height of Camera : 1.5m
 Orientation of View : N
 Date of Photography : 16 October 2024
 Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
 Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 17a - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : N
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 17a - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : N
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 17b - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : N
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 17b - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : N
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 17c - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : N
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 17c - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : N
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 17 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 18 - Existing



Viewpoint 18 - Proposed



Easting: 328163.295
 Northing: 808334.452
 Elevation : 413.42m
 Height of Camera : 1.5m
 Orientation of View : NE
 Date of Photography : 16 October 2024
 Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
 Viewpoint 18 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 18 - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant

Viewpoint 18 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 18 - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 328163.295
Northing: 808334.452
Elevation : 413.42m
Height of Camera : 1.5m
Orientation of View : NE
Date of Photography : 16 October 2024
Time of Photography : 11:20am

Nova Energy - Twizel Solar Plant
Viewpoint 18 - Mcaughtries Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 20 - Existing



Viewpoint 20 - Proposed



Easting: 330073.202
 Northing: 806496.427
 Elevation : 413.752m
 Height of Camera : 1.5m
 Orientation of View : NW
 Date of Photography : 16 October 2024
 Time of Photography : 10:44am

Nova Energy - Twizel Solar Plant
 Viewpoint 20 - Ohau C

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd. Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 20a - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 330073.202
Northing: 806496.427
Elevation : 413.752m
Height of Camera : 1.5m
Orientation of View : NW
Date of Photography : 16 October 2024
Time of Photography : 10:44am

Nova Energy - Twizel Solar Plant

Viewpoint 20 - Ohau C

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 20a - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 330073.202
Northing: 806496.427
Elevation : 413.752m
Height of Camera : 1.5m
Orientation of View : NW
Date of Photography : 16 October 2024
Time of Photography : 10:44am

Nova Energy - Twizel Solar Plant

Viewpoint 20 - Ohau C

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 20b - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 330073.202
Northing: 806496.427
Elevation : 413.752m
Height of Camera : 1.5m
Orientation of View : NW
Date of Photography : 16 October 2024
Time of Photography : 10:44am

Nova Energy - Twizel Solar Plant

Viewpoint 20 - Ohau C

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 20b - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 330073.202
Northing: 806496.427
Elevation : 413.752m
Height of Camera : 1.5m
Orientation of View : NW
Date of Photography : 16 October 2024
Time of Photography : 10:44am

Nova Energy - Twizel Solar Plant

Viewpoint 20 - Ohau C

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens.
Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 21 - Existing



Viewpoint 21 - Proposed



Easting: 330552.735
 Northing: 805863.183
 Elevation : 385.446m
 Height of Camera : 1.5m
 Orientation of View : NW
 Date of Photography : 16 October 2024
 Time of Photography : 10:01am

Nova Energy - Twizel Solar Plant
 Viewpoint 21 - Falston Road

NOTES: All photos were taken by Virtual View with a Canon
 5Dmk2 and a 50mm lens.
 Photo positions were surveyed by Virtual View Ltd.
 Dashed white line indicates cropped viewpoint portion.

Version info: 0001
 Date Printed: 02-12-2024





Viewpoint 21 - Existing

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 330552.735
Northing: 805863.183
Elevation : 385.446m
Height of Camera : 1.5m
Orientation of View : NW
Date of Photography : 16 October 2024
Time of Photography : 10:01am

Nova Energy - Twizel Solar Plant
Viewpoint 21 - Falston Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024





Viewpoint 21 - Proposed

IMAGE TO BE VIEWED AT 50cm FROM EYE FOR CORRECT VIEWING SCALE WHEN PRINTED AT A3



Easting: 330552.735
Northing: 805863.183
Elevation : 385.446m
Height of Camera : 1.5m
Orientation of View : NW
Date of Photography : 16 October 2024
Time of Photography : 10:01am

Nova Energy - Twizel Solar Plant
Viewpoint 21 - Falston Road

NOTES: All photos were taken by Virtual View with a Canon 5Dmk2 and a 50mm lens. Photo positions were surveyed by Virtual View Ltd.

Version info: 0001
Date Printed: 02-12-2024

