

# Shannon Technology and Energy Park (STEP) Power Plant

## **Appendix A10.1: Booklet of Photomontages**

Shannon LNG Limited

Shannon Technology and Energy Park (STEP) Power Plant Volume 4\_Appendices

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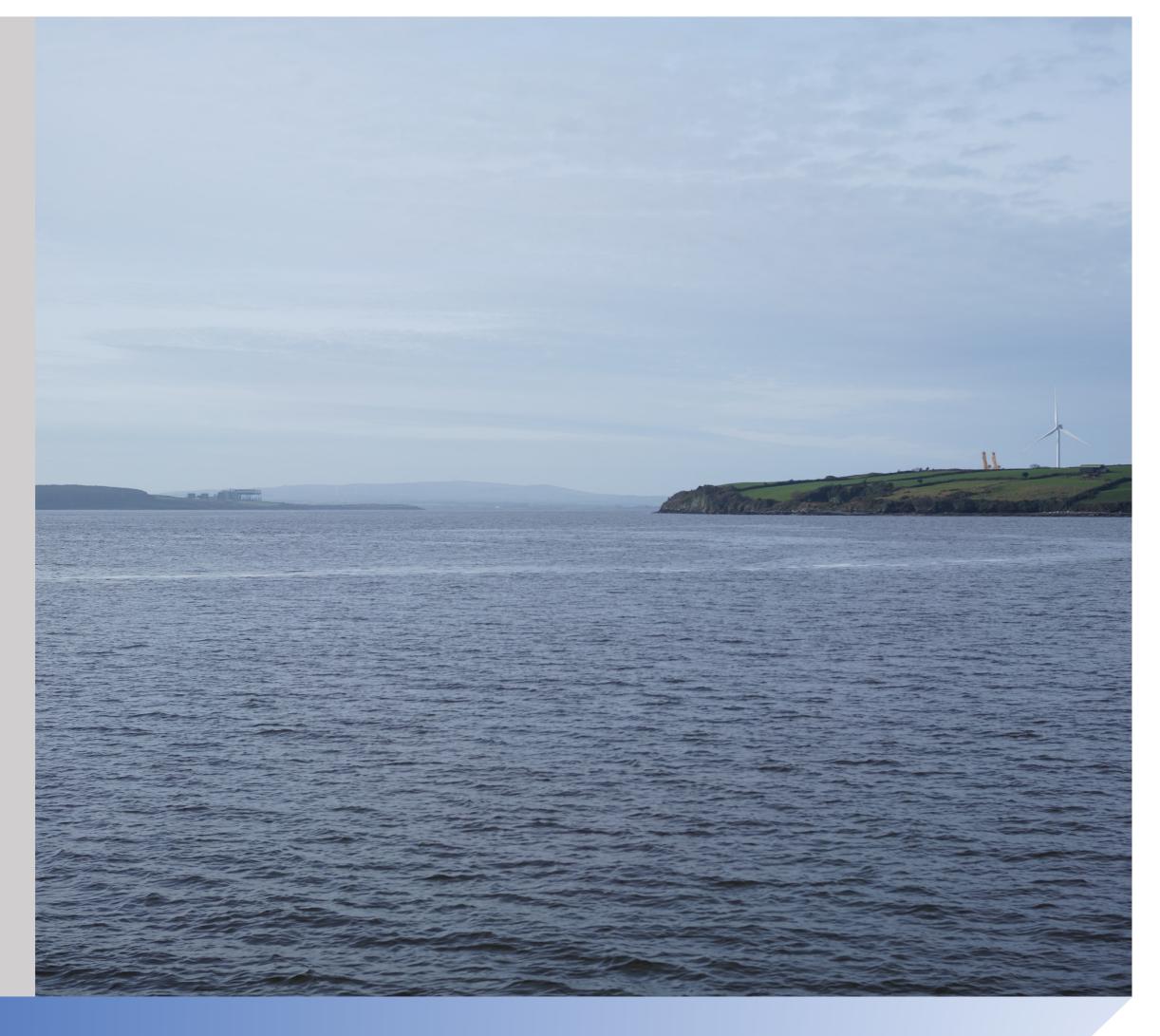
Verified View Photomontages of Proposed Shannon Power Plant at Kilcolgan Lower, Co. Kerry



Document at A3 prepared by G-Net 3D, NSC Campus, Mahon Cork Tel: 021-230 7043

www.gnet3d.com





#### Photomontage Methodology

The methodology used to develop the photomontages is based on the "Visual Representation of Development Proposals" Guidance note by the Landscape Institute, 2019.

#### Photography

The photography for night time views was carried out on the November 5<sup>th</sup>, 2020, using Canon EOS Rebel T5i camera and day time views on the February 7<sup>th</sup>, 2024, using Sony  $\alpha$ 7RIII full frame camera. Two lenses 24mm and 50mm prime lens were used for the photography.

A 24mm - wide angle lens was selected for the photography to provide more information on the context around the proposed development. The horizontal field of view of these photographs is 74°. The above-mentioned guidance suggests that 40° angle is the closest to human eye vision and is recommended for the verified photomontages. In the cases where the wide lens is used, there should be an indication of 40° field of view, which is shown on the bottom of all the views.

A recommended viewing distance of the photomontages taken using 50mm lens is around 500mm and 24mm lens - 300mm from eyes when printed on A3 paper.

Geomax Zenith 60 GPS Antennae was used to accurately record the viewpoint and reference markers' coordinates and height levels. Viewpoint locations are indicated in the table to the right and viewpoint map on the page 3.

#### Modelling

Preparation of an accurate 3D model of the proposed Shannon Power Plant development and landscape, including some existing buildings and infrastructure as reference points.

#### Setup

The following information is used to accurately position the model of the proposed development into the photographs: -Site survey,

-Photographs,

-Verified viewpoint coordinates and height levels are accurately marked on the location OSi map.

To match the 3D camera view with the photograph we take the following steps:

The camera height is taken from information gathered on the levels from where the photos are taken (table below). The height levels of the proposed development are outlined on the site. Focal length is based on the photograph EXIF info.

This data is imported into our 3D software and the 3D camera is matched with the selected photographs. To match the 3D camera accurately we use all the above data and the reference 3D models. The reference 3D models are existing structures i.e. buildings, roads, lamps, etc which are visible on the photographs. These items are modelled based on the survey information. After all the above conditions are fulfilled and we are satisfied that the camera matches correctly, we proceed to the next step.

#### Rendering

We apply the materials and textures prior to rendering the photomontage images. Light settings are adjusted to match the brightness of the photographs and sun is positioned according to the date and time the photo was taken.

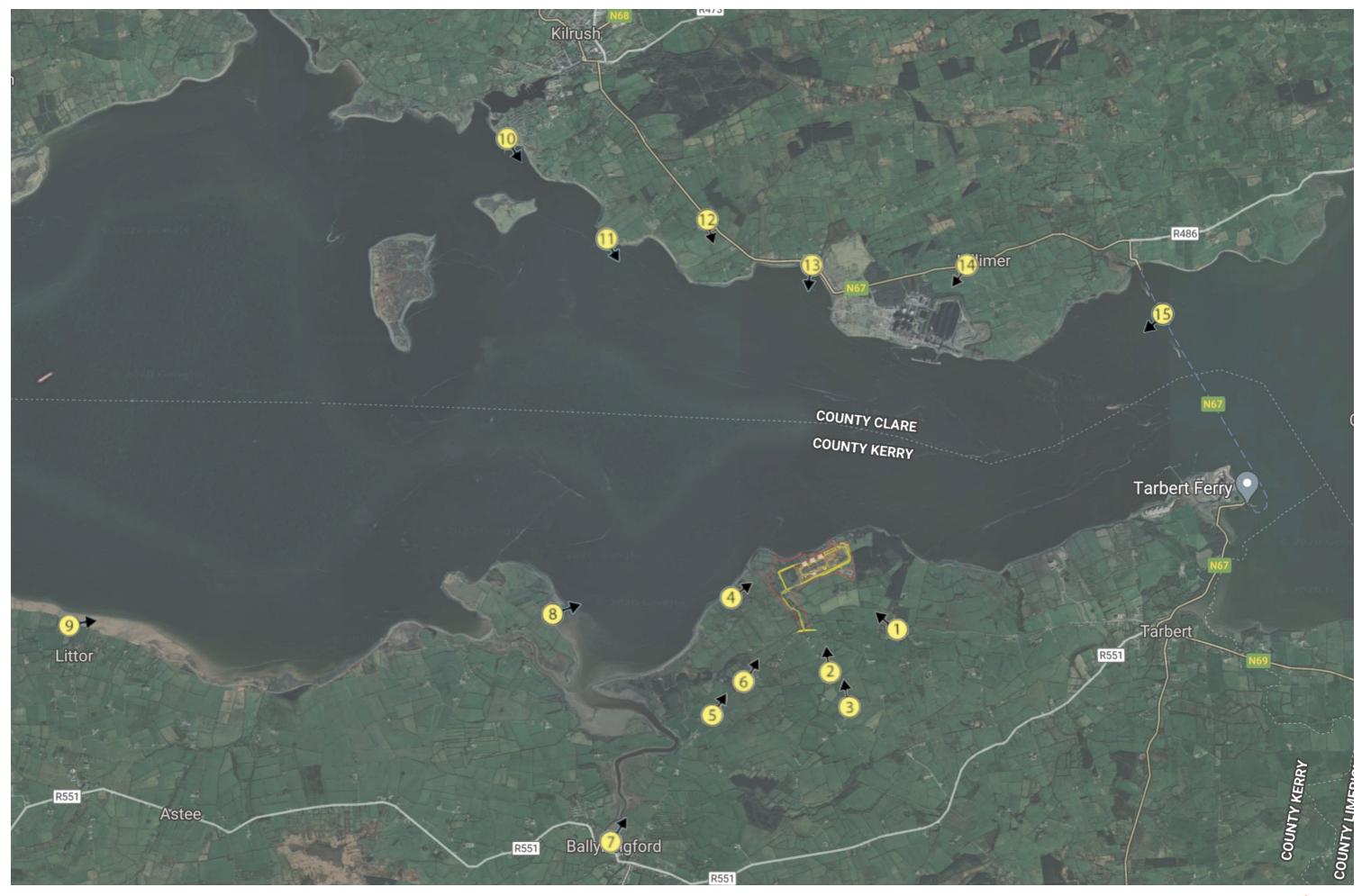
#### Post processing

This process means incorporating a 3D image of the proposed development into the photograph to achieve the final result.

#### Information on the Viewpoints

View No	Easting (m)	Northing (m)	Orthomet- ric Height at Ground Level (m)	Distance to the centre of the site (m)	Camera	Camer a Focal Length	Date of Photo- graphy	Time of Photo- graphy
View 1	502960.062	647900.552	24.740	972	Sony α7RIII	50mm	07/02/2024	12:43
View 2	502193.737	647712.463	30.643	1,037	Sony α7RIII	24mm	07/02/2024	12:56
View 3	502729.334	646762.882	55.518	1,988	Sony α7RIII	50mm	07/02/2024	13:05
View 4	501270.637	648226.332	8.822	1,281	Sony α7RIII	24mm	07/02/2024	13:19
View 5	501137.330	646880.959	18.277	2,256	Sony α7RIII	50mm	07/02/2024	13:37
View 6	501466.450	647182.758	15.509	1,827	Sony α7RIII	50mm	07/02/2024	13:31
View 7	499510.390	645107.244	2.859	4,660	Sony α7RIII	50mm	07/02/2024	13:39
View 8 D	498898.083	648133.325	2.731	3,418	Sony α7RIII	24mm	07/02/2024	14:04
View 8 N	498897.074	648133.108	2.871	3,418	Canon EOS	18mm	05/11/2020	18:49
View 9	492915.884	648083.426	2.528	9,940	Sony α7RIII	50mm	07/02/2024	14:25
View 10	498524.521	654054.826	3.136	6,618	Sony α7RIII	50mm	07/02/2024	16:38
View 11	499977.158	652775.701	10.998	4,780	Sony α7RIII	50mm	07/02/2024	16:30
View 12 D	501166.539	652926.155	26.019	4,409	Sony α7RIII	50mm	07/02/2024	16:22
View 12 N	501165.250	652927.848	26.156	4,409	Canon EOS	35mm	05/11/2020	17:37
View 13	502402.518	652396.903	3.886	3,661	Sony α7RIII	50mm	07/02/2024	16:13
View 14	504491.652	652389.530	57.858	4,206	Sony α7RIII	50mm	07/02/2024	11:14
View 15	506620.609	652091.292	3.415	5,400	Sony α7RIII	50mm	07/02/2024	12:12





Viewpoint Map





Photo Date: 07.02.2024 Photo Time: 12:43 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502960.062;647900.552;24.740 Distance to the Centre of the Proposed Development: 972m





Photo Date: 07.02.2024 Photo Time: 12:43 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502960.062;647900.552;24.740 Distance to the Centre of the Proposed Development: 972m





Photo Date: 07.02.2024 Photo Time: 12:56 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502193.737;647712.463;30.643 Distance to the Centre of the Proposed Development: 1,037m





Photo Date: 07.02.2024 Photo Time: 12:56 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502193.737;647712.463;30.643 Distance to the Centre of the Proposed Development: 1,037m





Photo Date: 07.02.2024 Photo Time: 13:05 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502729.334;646762.882;55.518 Distance to the Centre of the Proposed Development: 1,988m





Photo Date: 07.02.2024 Photo Time: 13:05 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502729.334;646762.882;55.518 Distance to the Centre of the Proposed Development: 1,988m





Photo Date: 07.02.2024 Photo Time: 13:19 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501270.637;648226.332;8.822 Distance to the Centre of the Proposed Development: 1,281m



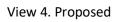




Photo Date: 07.02.2024 Photo Time: 13:19 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501270.637;648226.332;8.822 Distance to the Centre of the Proposed Development: 1,281m







Photo Date: 07.02.2024 Photo Time: 13:37 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501137.330;646880.959;18.277 Distance to the Centre of the Proposed Development: 2,256m







Photo Date: 07.02.2024 Photo Time: 13:37 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501137.330;646880.959;18.277 Distance to the Centre of the Proposed Development: 2,256m





Photo Date: 07.02.2024 Photo Time: 13:31 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501466.450;647182.758;15.509 Distance to the Centre of the Proposed Development: 1,827m





Photo Date: 07.02.2024 Photo Time: 13:31 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501466.450;647182.758;15.509 Distance to the Centre of the Proposed Development: 1,827m





Photo Date: 07.02.2024 Photo Time: 13:39 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 499510.390;645107.244;2.859 Distance to the Centre of the Proposed Development: 4,660m





Photo Date: 07.02.2024 Photo Time: 13:39 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 499510.390;645107.244;2.859 Distance to the Centre of the Proposed Development: 4,660m





Photo Date: 07.02.2024 Photo Time: 14:04 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 498898.083;648133.325;2.731 Distance to the Centre of the Proposed Development: 3,418m





Photo Date: 07.02.2024 Photo Time: 14:04 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 498898.083;648133.325;2.731 Distance to the Centre of the Proposed Development: 3,418m



#### < 18mm 77°

Project Name: Shannon Power Plant Issue Date: 20/03/2024 Photo Date: 05.11.2020 Photo Time: 18:49 Camera: Canon EOS Rebel T5i

<<40°

Viewpoint Coordinates (ITM): 498897.074;648133.108;2.871 Distance to the Centre of the Proposed Development: 3,418m 40°>>

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### < 18mm 77°

Project Name: Shannon Power Plant Issue Date: 20/03/2024 Photo Date: 05.11.2020 Photo Time: 18:49 Camera: Canon EOS Rebel T5i

<<40°

Viewpoint Coordinates (ITM): 498897.074;648133.108;2.871 Distance to the Centre of the Proposed Development: 3,418m 40°>>

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< 18mm 77°

Project Name: Shannon Power Plant Issue Date: 20/03/2024 Photo Date: 05.11.2020 Photo Time: 18:49 Camera: Canon EOS Rebel T5i

<<40°

Viewpoint Coordinates (ITM): 498897.074;648133.108;2.871 Distance to the Centre of the Proposed Development: 3,418m 40°>>

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Photo Date: 07.02.2024 Photo Time: 14:25 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 492915.884;648083.426;2.528 Distance to the Centre of the Proposed Development: 9,940m





Photo Date: 07.02.2024 Photo Time: 14:25 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 492915.884;648083.426;2.528 Distance to the Centre of the Proposed Development: 9,940m





Photo Date: 07.02.2024 Photo Time: 16:38 Camera: Sony a7RIII

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WE VISUALISE



Photo Date: 07.02.2024 Photo Time: 16:38 Camera: Sony a7RIII





Photo Time: 16:30 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 499977.158;652775.701;10.998 Distance to the Centre of the Proposed Development: 4,780m

WE VISUALISE



Project Name: Shannon Power Plant

Issue Date: 20/03/2024

Photo Time: 16:30 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 499977.158;652775.701;10.998 Distance to the Centre of the Proposed Development: 4,780m

WE VISUALISE



Photo Date: 07.02.2024 Photo Time: 16:22 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501166.539;652926.155;26.019 Distance to the Centre of the Proposed Development: 4,409m





Photo Date: 07.02.2024 Photo Time: 16:22 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 501166.539;652926.155;26.019 Distance to the Centre of the Proposed Development: 4,409m





Photo Time: 17:37 Camera: Canon EOS Rebel T5i Viewpoint Coordinates (ITM): 501165.250;652927.848;26.156 Distance to the Centre of the Proposed Development: 4,409m

WE VISUALISE



Photo Time: 17:37 Camera: Canon EOS Rebel T5i Viewpoint Coordinates (ITM): 501165.250;652927.848;26.156 Distance to the Centre of the Proposed Development: 4,409m





<< 35mm 40°

Project Name: Shannon Power Plant Issue Date: 20/03/2024

Photo Time: 17:37 Camera: Canon EOS Rebel T5i Viewpoint Coordinates (ITM): 501165.250;652927.848;26.156 Distance to the Centre of the Proposed Development: 4,409m



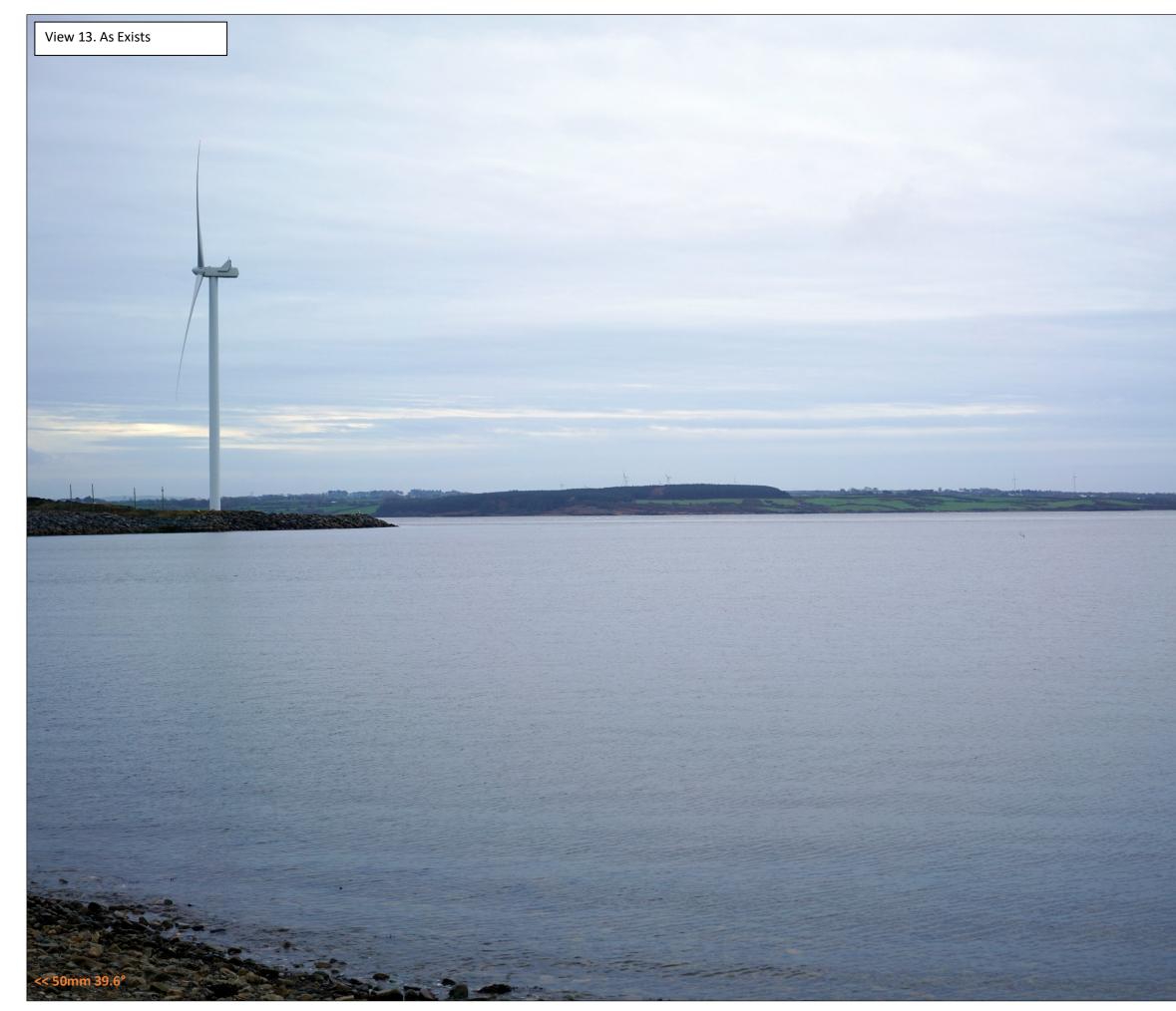


Photo Date: 07.02.2024 Photo Time: 16:13 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502402.518;652396.903;3.886 Distance to the Centre of the Proposed Development: 3,661m



WE VISUALISE



Photo Time: 16:13 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 502402.518;652396.903;3.886 Distance to the Centre of the Proposed Development: 3,661m

WE VISUALISE



Photo Date: 07.02.2024 Photo Time: 11:14 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 504491.652;652389.530;57.858 Distance to the Centre of the Proposed Development: 4,206m



Photo Date: 07.02.2024 Photo Time: 11:14 Camera: Sony a7RIII Viewpoint Coordinates (ITM): 504491.652;652389.530;57.858 Distance to the Centre of the Proposed Development: 4,206m



Photo Date: 07.02.2024 Photo Time: 12:12 Camera: Sony a7RIII





Photo Time: 12:12 Camera: Sony a7RIII

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WE VISUALISE