

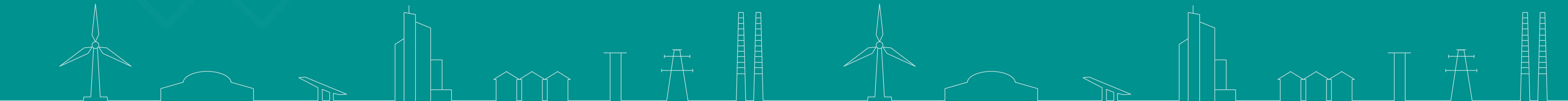
macroworks

LVIA PHOTOMONTAGES

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension
Port of Waterford, Belview, Co. Kilkenny.

This book contains imagery for the
viewpoints chosen for the LVIA study

August 2025



LVIA | TVIA | Landscape Design | Visibility Analysis | Glint and Glare | Verified Photomontages | CGI | Shadow Flicker Analysis



Viewpoints

● Viewpoint

▨ Site Boundary

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90° Baseline Photography
53.5° Outline View

***Please Note:** There is no Outline or Photomontage from this viewpoint as the proposed development is completely screened by terrain

****Please Note:** There is no Photomontage from this viewpoint as the proposed development is completely screened by existing vegetation and/or terrain

Introduction

There is no industry-standard definition of what constitutes a ‘verified photomontage’, and it has been applied in two different ways, namely in terms of image size/scaling, and that of the accuracy of the camera location. Both are essentially concerned with the ability to audit the accuracy of the visual material.

The Landscape Institute Technical Guidance Note 06/19 – Visual representation of development proposals (TGN 06/19) state that:

“Visualisations should provide the viewer with a fair representation of what would be likely to be seen if the proposed development is implemented and should portray the proposal in scale with its surroundings. In the context of landscape / townscape and visual impact assessment, it is crucial that visualisations are objective and sufficiently accurate for the task in hand. In short, visualisation should be fit for purpose.”

Macro Works has produced the Verified View Montages (VVM) included in this document in accordance with TGN 06/19 and the Scottish Natural Heritage 2017 ‘Visual Representation of Wind Farms’, guidance that advocates a proportionate approach and appropriate levels of accuracy. In the context that the visual material is to accompany a planning application, the approach taken seeks to ensure that the visual material is accurate, objective, and unbiased.

For the photomontages to be verifiable, all photography has been carried out using a high-quality full framer camera and fixed focal length prime lens, mounted on a tripod, and photomontage locations have been surveyed by our trained GIS and LVIA staff using a Trimble Catalyst/GNSS device, to provide highly accurate location and elevation information. Where deemed necessary, the photomontage locations will also be surveyed by a qualified topographical surveyor and control points will be recorded for model alignment within the panorama.

The locations of the visualisations have been agreed by the client, based on those identified through the Landscape/Townscape and Visual Impact Assessment (LVIA or TVIA) process, and visualisations have been based on 3D model information received from project architects/engineers.

This methodology has been prepared by Macro Works to explain the production of the VVM, ensuring the process is transparent and auditable.

Photography and GPS/GNSS Data

At the agreed locations, high quality photography is captured in RAW format using either a Canon 5D Mark II or Canon 6D Mark II Megapixel Full Frame Sensor camera.

A Manfrotto tripod and panoramic head and leveller are used to ensure the photography is taken level.

Viewpoint locations are captured using a survey grade GNSS unit and made compatible with the GIS referenced drawings of the proposed development. Where deemed necessary, the camera location is paint-marked and photographed to inform the surveyors. The surveyors are given the photograph locations, together with a marked-up photography that showed elements in the view (parapet heights, kerbing, lamp posts, etc.) that were to be surveyed as control points for model alignment.

TGN 06/19 advocates the use of a 50mm prime lens as industry standard. In urban contexts, where a 50mm lens cannot fully capture the proposed development, it accepts the use of alternative fixed length prime lenses (Appendix 11, P.28). This approach is adopted dependent on the proximity of the development. In these instances, 24mm prime lens are used.

Following the site visit, RAW images are processed via Adobe Lightroom and panoramas are stitched and generated using the recommended industry standard software, PTGui Pro.

Post Production and Formatting

Post-production, the rendered image is taken into Adobe Photoshop where it is ‘masked’ into the existing captured panorama.

This essentially involves ensuring that anything in the foreground of the proposals is brought in front of the rendered image, therefore generating the VVM.

Adjustments are made as required to ensure that the lighting, reflections, and material characteristics of each render are accurate to the time and date of the photography, and that the images meet GDPR standards (via blurring faces and car registrations, etc.).

Proposed mitigation is added where indicated via a Landscape Mitigation Plan.

Each visual is subject to a thorough review and approval process. For urban projects, confirmation with the architects is sought so that the VVM accurately reflect the architectural proposals.

3D Modelling and VVM Creation

The proposed development is accurately modelled into a 3D environment in GIS mapping software and 3DS Max 2023 using a combination of data sources (REVIT files, AutoCAD drawings, DTM/DSM data etc.) received from the project architects and engineers.

Virtual 3D cameras are positioned according to the survey co-ordinates, and the focal length is set to match the captured photography.

For rural projects, the visualisation preparation methodology recommended in the Scottish Natural Heritage 2017 ‘Visual Representation of Wind Farms’ is strictly followed. This involves the creation of 360° wirelines using GIS software, which perfectly match the generated panoramas and 3DS Max renders for each viewpoint. This allows for the development to be accurately placed within the captured photography.

For urban projects, Camera Matching or Photographic Alignment is a method in which a combination of data is used to produce an accurate camera match for each view. Virtual 3D cameras are positioned and the captured photography is then placed into the background of the 3DS Max Viewpoint and the surveyed information is then matched to the existing buildings in the photography.

Colour palettes and material references provided by the design team are applied to the model to provide a real-world representation. Renders of the development are generated from 3DS Max 2023 with identical image characteristics to that of the baseline photography (including reference to the date and time of capture), ensuring a high degree of accuracy.

Image Presentation

Final views are formatted into a booklet using Adobe Illustrator/InDesign, with all accompanying information relating to the photography, modelling, topography, post production and viewpoints included. They are presented in accordance with the TGN 06/19 guidance.

This document contains :

1. Site location map with view locations plotted;
2. Photomontage (existing, outline and proposed conditions);
3. Reference information, including photography, modelling, topographic, post production, formatting, viewpoint and viewing instructions.

Extent of 53.5° planar panorama (for reference)



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP1 Great Island at Barrow Bridge

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 668470
 Northing (ITM): 615064
 Direction of View: 227 °
 Distance to Site: 2.2 km
 Elevation: 18.6 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 23/07/2024 16:13
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP2 Local Road northwest of site at Drumdowney Upper

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 666241
 Northing (ITM): 614631
 Direction of View: 199 °
 Distance to Site: 0.8 km
 Elevation: 31.2 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 13:17
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

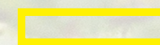
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP2 Local Road northwest of site at Drumdowney Upper

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Eastings (ITM): 666241
 Northing (ITM): 614631
 Direction of View: 182 °
 Distance to Site: 0.8 km
 Elevation: 31.2 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 13:17
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS





View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP2 Local Road northwest of site at Drumdowney Upper

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 666241
 Northing (ITM): 614631
 Direction of View: 182 °
 Distance to Site: 0.8 km
 Elevation: 31.2 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
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 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3 Local Road north of site at Drumdowney Upper

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 666487
 Northing (ITM): 614286
 Direction of View: 203 °
 Distance to Site: 0.5 km
 Elevation: 33.5 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 13:15
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

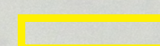
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3 Local Road north of site at Drumdowney Upper

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 666487
 Northing (ITM): 614286
 Direction of View: 187 °
 Distance to Site: 0.5 km
 Elevation: 33.5 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 13:15
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS





View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP3 Local Road north of site at Drumdowney Upper

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Eastings (ITM): 666487
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 Direction of View: 187 °
 Distance to Site: 0.5 km
 Elevation: 33.5 m

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 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

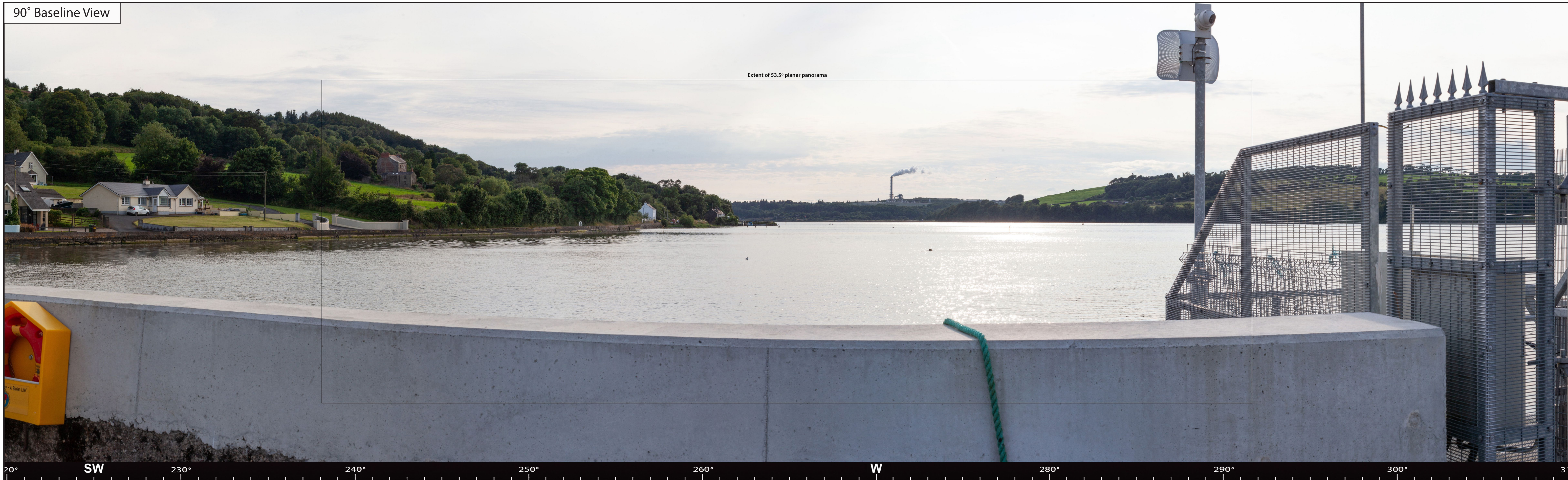
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 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



90° Baseline View



Extent of 53.5° planar panorama

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP4 Cheekpoint Pier

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 668514
 Northing (ITM): 613885
 Direction of View: 265 °
 Distance to Site: 1.9 km
 Elevation: 4.7 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 23/07/2024 19:11
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)


Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP4 Checkpoint Pier

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 668514
 Northing (ITM): 613885
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 Elevation: 4.7 m

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 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Photomontage



View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP4 Cheekpoint Pier

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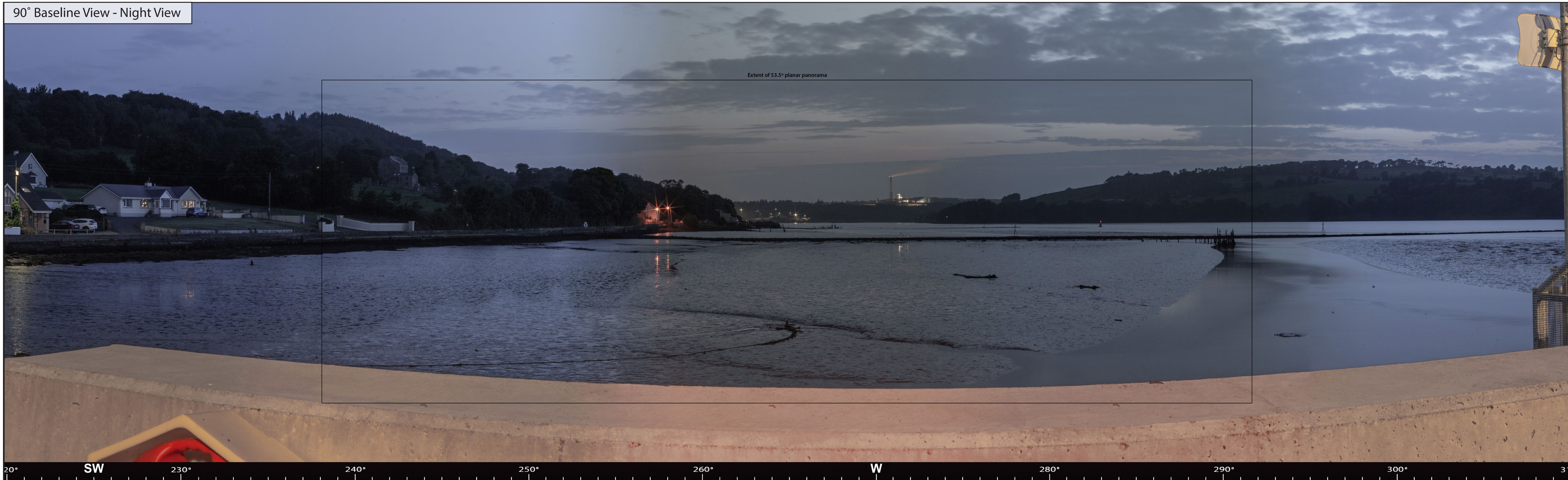
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 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



90° Baseline View - Night View



Extent of 53.5° planar panorama

20° SW 230° 240° 250° 260° W 280° 290° 300° 310°

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP4 Cheekpoint Pier

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 668512
 Northing (ITM): 613884
 Direction of View: 265°
 Distance to Site: 1.9 km
 Elevation: 4.7 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 24/07/2025 21:29
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Photomontage - Night View



View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP4 Cheekpoint Pier

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Eastings (ITM): 668512
 Northing (ITM): 613884
 Direction of View: 265 °
 Distance to Site: 1.9 km
 Elevation: 4.7 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 24/07/2025 21:29
 Camera: Canon 5D Mark II Digital SLR
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Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



240° 250° 260° W 280° 290° 300° 310° NW 320°

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP5 Local river walk southeast of site at Cheekpoint

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Eastings (ITM): 667708
 Northing (ITM): 613637
 Direction of View: 276 °
 Distance to Site: 1.1 km
 Elevation: 5.7 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 17:13
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

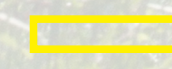
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



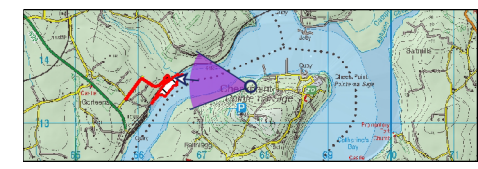
 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP5 Local river walk southeast of site at Cheekpoint

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667708
 Northing (ITM): 613637
 Direction of View: 276 °
 Distance to Site: 1.1 km
 Elevation: 5.7 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 17:13
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Photomontage



View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP5 Local river walk southeast of site at Cheekpoint

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667708
 Northing (ITM): 613637
 Direction of View: 276 °
 Distance to Site: 1.1 km
 Elevation: 5.7 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 17:13
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNS3 Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS





Extent of 53.5° planar panorama

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP6 Deer Park Forrest Recreational Area at Faithlegg

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 667185
 Northing (ITM): 613201
 Direction of View: 304 °
 Distance to Site: 0.8 km
 Elevation: 72.7 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 18:14
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



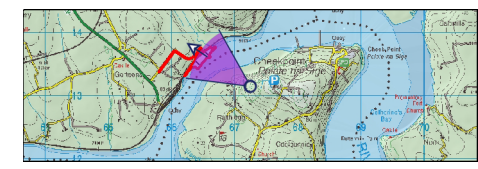
 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP6 Deer Park Forrest Recreational Area at Faithlegg

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667185
 Northing (ITM): 613201
 Direction of View: 304 °
 Distance to Site: 0.8 km
 Elevation: 72.7 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 18:14
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS





View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP6 Deer Park Forrest Recreational Area at Faithlegg

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667185
 Northing (ITM): 613201
 Direction of View: 304 °
 Distance to Site: 0.8 km
 Elevation: 72.7 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 18:14
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP7 Minaun Hill

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 668020
 Northing (ITM): 613067
 Direction of View: 292 °
 Distance to Site: 1.6 km
 Elevation: 122.3 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 17:36
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



300° 310° NW 320° 330° 340° 350° N 10° 20°

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP8 The Fairways at Faithlegg

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 666734
 Northing (ITM): 612587
 Direction of View: 342°
 Distance to Site: 1 km
 Elevation: 20.6 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 16:18
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

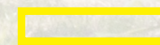
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP8 The Fairways at Faithlegg

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Eastings (ITM): 666734
 Northing (ITM): 612587
 Direction of View: 342 °
 Distance to Site: 1 km
 Elevation: 20.6 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 16:18
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Photomontage



View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP8 The Fairways at Faithlegg

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Eastings (ITM): 666734
 Northing (ITM): 612587
 Direction of View: 342°
 Distance to Site: 1 km
 Elevation: 20.6 m

Horizontal Field of View: 53.5° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 16:18
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP9 Faithlegg Golf Course

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 666261
 Northing (ITM): 612387
 Direction of View: 339 °
 Distance to Site: 1 km
 Elevation: 18 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 15:51
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

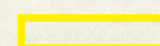
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP9 Faithlegg Golf Course

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 666261
 Northing (ITM): 612387
 Direction of View: 354 °
 Distance to Site: 1 km
 Elevation: 18 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 15:51
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS





View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP9 Faithlegg Golf Course

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 666261
 Northing (ITM): 612387
 Direction of View: 354 °
 Distance to Site: 1 km
 Elevation: 18 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 15:51
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP10 St Nicholas Church, Faithlegg

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 667264
 Northing (ITM): 612202
 Direction of View: 329 °
 Distance to Site: 1.6 km
 Elevation: 44.4 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 16:09
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

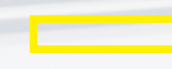
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP10 St Nicholas Church, Faithlegg

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667264
 Northing (ITM): 612202
 Direction of View: 329 °
 Distance to Site: 1.6 km
 Elevation: 44.4 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 16:09
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Photomontage



View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP10 St Nicholas Church, Faithlegg

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667264
 Northing (ITM): 612202
 Direction of View: 329 °
 Distance to Site: 1.6 km
 Elevation: 44.4 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 16:09
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LiDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



Extent of 53.5° planar panorama



Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP11 Cheekpoint Road (L4082) at Coolbunna

Visualisation Type 4 - This 90° cylindrical projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'. This image has been presented in a 90° cylindrical format to aid visual comprehension of linear infrastructure occupying a wide FoV, which avoids splitting the view across numerous multiple images.

Easting (ITM): 667141
 Northing (ITM): 611872
 Direction of View: 332°
 Distance to Site: 1.8 km
 Elevation: 53.7 m

Horizontal Field of View: 90° (cylindrical projection)
 Principal Distance: 522 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 251 mm
 Enlargement Factor: 96%

Date and Time: 13/06/2023 15:32
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

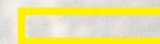
Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst (GNSS)
 Topographical Data: LiDAR/OSI Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS



53.5° Outline View
 indicating physical position and scale of the
 proposed development irrespective of screening



 Proposed Development

View flat at a comfortable arm's length

Proposed Offshore Renewable Energy (ORE) Capable Terminal Quay Extension - Landscape and Visual Impact Assessment

Viewpoint Ref: VP11 Cheekpoint Road (L4082) at Coolbunna

Visualisation Type 4 - This 53.5° planar projection panorama has been captured, prepared and presented in accordance with the guidance set out in the Landscape Institute Technical Guidance Note 06/09 for Type 4 Visualisations and the Scottish Natural Heritage 2017 guidance 'Visual Representation of Wind Farms'.



Easting (ITM): 667141
 Northing (ITM): 611872
 Direction of View: 332 °
 Distance to Site: 1.8 km
 Elevation: 53.7 m

Horizontal Field of View: 53.5 ° (planar projection)
 Principal Distance: 812.5 mm
 Paper size: 841 x 297 mm
 Correct printed image size: 820 x 260 mm
 Enlargement Factor: 150%

Date and Time: 13/06/2023 15:32
 Camera: Canon 5D Mark II Digital SLR
 Lens: Canon Fixed 50mm Full Frame Sensor
 Panoramic Head: Manfrotto Pano Head/Leveller
 Camera Height: 1.7m (AGL)

Photography Software: Adobe Lightroom
 Panorama Stitching Software: PTGui Pro
 Post-Production Software: Adobe Photoshop
 Formatting Software: Adobe Illustrator/InDesign

Modelling Software: 3DS Max 2023
 Rendering Software: Mental Ray/Corona
 GNSS Unit: Trimble Catalyst
 Topographical Data: LIDAR/OS Terrain Data
 GPS Ref: Georeferenced/Surveyed DWGS

