



Ernock red line boundary  
 Cultural Heritage study area boundary  
 (3km buffer from red line boundary)  
 Electrical layout and fence line  
 Kinross to Telling 400 kV OHL  
 Ernock to Telling Tie-Backs  
 Ernock to Telling Tie-Back East  
 Ernock to Telling Tie-Back West  
 Ernock Tie-ins  
 Diverted Aylth to Telling OHL  
 Diverted Westfield to Telling OHL  
 Screening  
 Woodland (mixed mainly conifer, mixed  
 mainly broadleaved, conifer,  
 broadleaved, young trees)  
 Building  
 Zone of Theoretical Visibility (with  
 bundling and screening included is 3km)  
 Area theoretically visible  
 53.5° Field of View  
 90° Field of View

The ZTV indicates the theoretical visibility of the proposed development (not including the OHL and tie-backs). The ground elevation of the fence line and electrical infrastructure is set to 150m with a rough of 10. To allow for the electrical infrastructure, a height of 7.2m is added to the central building and a height of 5.4m is added to the fence line. Screening types up to 10m include banking, banking set to 5m and rough forest inventory categories mixed young conifer, mixed mainly broadleaved, conifer, broadleaved young trees set to 0m and 0m for young trees. A viewer height of 2m was used. The terrain model is based on Ordnance Survey Terrain 5 digital terrain model (DTM) data. Each conifer and broadleaved influence have been taken into account. The ZTV was generated using AutoCAD PLS 3.3.1 software.

Mean Meters

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Project No: LT382  
 Project: Ernock 400 kV Substation

Title: Viewpoint CH03  
 Drawn by: IB  
 Date: 11/11/2024

Figure 8.8



Baseline photograph



OS reference: 343260 N 735860 E  
AOD (Above Ordnance Datum): 134 m  
Direction of view: 238°  
Horizontal field of view: 90° (cylindrical projection)

Vertical field of view: 27°  
Image Enlargement Factor: 96%  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 250 mm

Camera: NIKON D750  
Lens: NIKKOR AF 50mm f/1.8D  
Camera height: 1.5 m (above AOD)  
Date and time: 20/06/2024 13:46

Data Sources:  
Topography to inform AOD heights: 50cm National DTM (2020), Environment Agency.  
3D model informed by Site option layouts and development height parameters provided by Omexon in Revit (.rvt) format on 20/05/24.

SSEN Emmock Substation: Visualisations  
Figure 8.6a  
Cultural Heritage Viewpoint 3: Craig Hill, Fort and Broch





Visualisation showing proposed mitigation planting at year 0



OS reference: 343260 N 735860 E  
 AOD (Above Ordnance Datum): 134 m  
 Direction of view: 238°  
 Horizontal field of view: 90° (cylindrical projection)

Vertical field of view: 27°  
 Image Enlargement Factor: 96%  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 250 mm

Camera: NIKON D750  
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 3D model informed by Site option layouts and development height parameters provided by Omexon in Revit (.rvt) format on 20/05/24.

SSEN Emmock Substation: Visualisations  
 Figure 8.6b  
 Cultural Heritage Viewpoint 3: Craig Hill, Fort and Broch



Visualisation showing proposed mitigation planting at year 0



OS reference: 343260 N 735860 E  
AOD (Above Ordnance Datum): 134 m  
Direction of view: 298°  
Horizontal field of view: 53.5° (planar projection)

Vertical field of view: 18.2°  
Image Enlargement Factor: 150%  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: NIKKOR AF 50mm f/1.8D  
Camera height: 1.5 m (above AOD)  
Date and time: 20/06/2024 13:46

Data Sources:  
Topography to inform AOD heights: SDCm National DTM (2020), Environment Agency.  
3D model informed by Site option layouts and development height parameters provided by Omexon in Revit (.rvt) format on 20/05/24.

SSEN Emmock Substation: Visualisations  
Figure 8.6c  
Cultural Heritage Viewpoint 3: Craig Hill, Fort and Broch



Visualisation showing proposed mitigation planting at year 10



OS reference: 343260 N 735860 E  
 AOD (Above Ordnance Datum): 134 m  
 Direction of view: 238°  
 Horizontal field of view: 90° (cylindrical projection)

Vertical field of view: 27°  
 Image Enlargement Factor: 96%  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 250 mm

Camera: NIKON D750  
 Lens: NIKKOR AF 50mm f/1.8D  
 Camera height: 1.5 m (above AOD)  
 Date and time: 20/06/2024 13:46

Data Sources:  
 Topography to inform AOD heights: 50cm National DTM (2020), Environment Agency  
 3D model informed by Site option layouts and development height parameters provided by Omexon in Revit (.rvt) format on 20/05/24.

SSEN Emmock Substation: Visualisations  
 Figure 8.6d  
 Cultural Heritage Viewpoint 3: Craig Hill, Fort and Broch





Visualisation showing proposed mitigation planting at year 10



OS reference: 343260 N 735860 E  
AOD (Above Ordnance Datum): 134 m  
Direction of view: 298°  
Horizontal field of view: 53.5° (planar projection)

Vertical field of view: 18.2°  
Image Enlargement Factor: 150%  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: NIKKOR AF 50mm f/1.8D  
Camera height: 1.5 m (above AOD)  
Date and time: 20/06/2024 13:46

Data Sources:  
Topography to inform AOD heights: SDEM National DTM (2020), Environment Agency.  
3D model informed by Site option layouts and development height parameters provided by Omexon in Revit (.rvt) format on 20/05/24.

SSEN Emmock Substation: Visualisations  
Figure 8.6e  
Cultural Heritage Viewpoint 3: Craig Hill, Fort and Broch



Visualisation showing proposed cumulative OHL with mitigation planting at year 0



OS reference: 343260 N 735860 E  
 AOD (Above Ordnance Datum): 134 m  
 Direction of view: 238°  
 Horizontal field of view: 90° (cylindrical projection)

Vertical field of view: 27°  
 Image Enlargement Factor: 86%  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 250 mm

Camera: NIKON D750  
 Lens: NIKKOR AF 50mm f/1.8D  
 Camera height: 1.5 m (above AOD)  
 Date and time: 20/06/2024 13:46

Data Sources:  
 Topography to inform AOD heights: 50cm National DTM (2020), Environment Agency  
 3D model informed by Site option layouts and development height parameters provided by Omexon in Revit (.rvt) format on 20/05/24.

- Diverted Alyth to Tealing OHL
- Diverted Westfield to Tealing OHL
- Proposed new 400KV to Hurlie / Kintore
- Emmock to Tealing tie-back West
- Emmock to Tealing tie-back East

SSEN Emmock Substation: Visualisations  
 Figure 8.6f  
 Cultural Heritage Viewpoint 3: Craig Hill, Fort and Broch