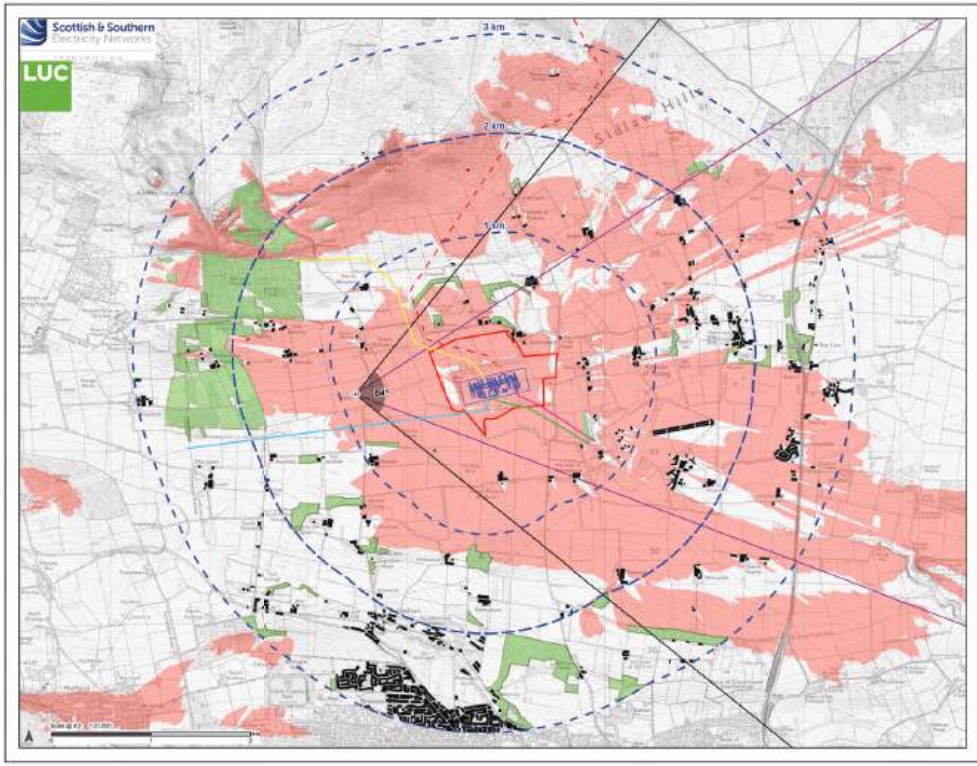

Emmock red line boundary
Cultural Heritage study area boundary (3km buffer from red line boundary)
Electrical layout and fence line
Kintore to Tealing 400 kV OHL

Emmock to Tealing Tie-Backs
Emmock to Tealing Tie-Back East
Emmock to Tealing Tie-Back West

Emmock Tie-Ins
Diverted Alyth to Tealing OHL
Diverted Westfield to Tealing OHL

Screening
Woodland (mixed mainly conifer, mixed mainly broadleaved, conifer, broadleaved, young trees)
Building

Zone of Theoretical Visibility (with bunding and screening included to 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 OHLand tie-in/de-tracts). The ground elevation of the fence line and electrical infrastructure is set to 136m with a height of 10.3m added to the electrical infrastructure, a height of 7.2m added to the control building and a height of 3.4m added to the fence line. Screening layers (up to 3km) include bunding, buildings set to 4m and national forest inventory categories mixed mainly conifer, mixed mainly broadleaved, conifer, broadleaves young trees set to 12m and 5m for young trees. A viewer height if 2m was used. The terrain model is based on Ordnance Survey Terrain 5 digital terrain model (DTM) data. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.3.1 software.

Maps: Microsoft

Project No: LT352

Project: Emmock 400 kV Substation

Title:
Viewpoint CH01
Martin's Stone, Cross Slab (SM 169)

Drawn by: IB

Date 11/11/2024

Figure: 8.4

LUC

OS reference:	337484 N 737573 E
AOD (Above Ordnance Datum):	151.78 m
Direction of view:	84°
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 16:18

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 8.4a
Cultural Heritage Viewpoint 1: Martin's Stone, Cross Slab (SM 159)

Visualisation showing proposed mitigation planting at year 0

LUC

OS reference:	337484 N 737573 E
AOD (Above Ordnance Datum):	151.78 m
Direction of view:	84°
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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Camera height:	1.5 m (above AOD)
Date and time:	20/06/2024 16:18

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 8.4b
Cultural Heritage Viewpoint 1: Martin's Stone, Cross Slab (SM 159)

LUC

OS reference:	337484 N 737573 E
AOD (Above Ordnance Datum):	151.78 m
Direction of view:	84°
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 16:18

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 8.4c
Cultural Heritage Viewpoint 1: Martin's Stone, Cross Slab (SM 159)

Visualisation showing proposed mitigation planting at year 10

LUC

OS reference:	337484 N 737573 E
AOD (Above Ordnance Datum):	151.78 m
Direction of view:	84°
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 16:18

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 8.4d
Cultural Heritage Viewpoint 1: Martin's Stone, Cross Slab (SM 159)

LUC

OS reference:	337484 N 737573 E
AOD (Above Ordnance Datum):	151.78 m
Direction of view:	84°
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 16:18

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 8.4e
Cultural Heritage Viewpoint 1: Martin's Stone, Cross Slab (SM 159)

Visualisation showing proposed cumulative OHL with mitigation planting at year 0

LUC

OS reference:	337484 N 737573 E
AOD (Above Ordnance Datum):	151.78 m
Direction of view:	84°
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 16:18

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 8.4f
Cultural Heritage Viewpoint 1: Martin's Stone, Cross Slab (SM 159)