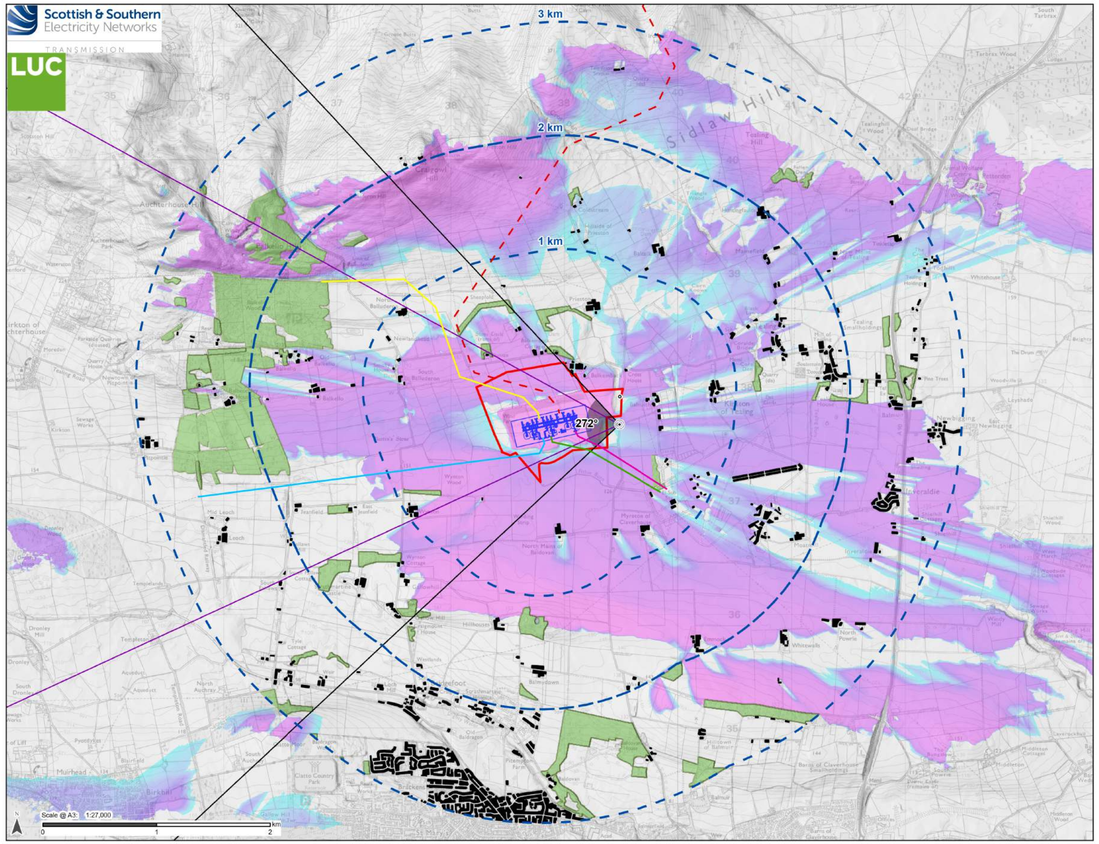

Emmock red line boundary
LVIA study area boundary (3km buffer from red line boundary)
Electrical layout and fence line
Kintore to Tealing 400 kV OHL

Emmock Tie-Ins

Diverted Alyth to Tealing OHL
Diverted Westfield to Tealing OHL

Emmock to Tealing Tie-Backs

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

Screening

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

Zone of Theoretical Visibility (with bunding and screening included to 3km)

Theoretically more visible
Theoretically less 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-ins/tie-backs). The ground elevation of the fence line and electrical infrastructure is set to 139m with a height of 15.3m 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 8m and national forest inventory categories mixed mainly conifer, mixed mainly broadleaved, conifer, broadleaved young trees set to 15m and 5m 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. Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.3.1 software.

Maxar, Microsoft

Project No: LT486

Project: Emmock 400 kV Substation

Title:

Viewpoint VP09
Minor Road west of Balnuith

Drawn by: IB

Date: 06/11/2024

Figure: 7.13

LUC

OS reference:	339485 N 737672 E
AOD (Above Ordnance Datum):	134.93 m
Direction of view:	272°
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 D600
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	05/09/2024 13:14

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 7.13a
Viewpoint 9: Minor Road west of Balnuith

LUC

OS reference:	339485 N 737672 E
AOD (Above Ordnance Datum):	134.93 m
Direction of view:	272°
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 D600
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	05/09/2024 13:14

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 7.13b
Viewpoint 9: Minor Road west of Balnuith

LUC

OS reference:	339485 N 737672 E
AOD (Above Ordnance Datum):	134.93 m
Direction of view:	272°
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:	05/09/2024 13:14

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 7.13c
Viewpoint 9: Minor Road west of Balnuith

LUC

OS reference:	339485 N 737672 E
AOD (Above Ordnance Datum):	134.93 m
Direction of view:	272°
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 D600
Lens:	Nikkor AF 50mm f/1.8D
Camera height:	1.5 m (above AOD)
Date and time:	05/09/2024 13:14

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 7.13d
Viewpoint 9: Minor Road west of Balnuith

LUC

OS reference:	339485 N 737672 E
AOD (Above Ordnance Datum):	134.93 m
Direction of view:	272°
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:	05/09/2024 13:14

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 7.13e
Viewpoint 9: Minor Road west of Balnuith

LUC

OS reference:	339485 N 737672 E
AOD (Above Ordnance Datum):	134.93 m
Direction of view:	272°
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:	05/09/2024 13:14

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 7.13f
Viewpoint 9: Minor Road west of Balnuith