



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 confer mixed mainly 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 Arcells Prointo account. The ZTV was calculated using ArcGIS Pro

Maxar, Microsoft



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Project No: LT486

Project: Emmock 400 kV Substation

Viewpoint VP01 Cairns-Balkello Hill

Date: 06/11/2024

Figure: 7.5





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: 30/07/2024 14:45

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 7.5a Viewpoint 1: Cairns-Balkello Hill





Horizontal field of view: 90° (cylindrical projection)

Vertical field of view: 27°
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SSEN Emmock Substation: Visualisations Figure 7.5b Viewpoint 1: Cairns-Balkello Hill





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: 30/07/2024 14:45

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.





Horizontal field of view: 90° (cylindrical projection)

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Image Enlargement Factor: 96%
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Correct printed image size: 820 x 250 mm

Camera: NIKON D750
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Camera height: 1.5 m (above AOD)
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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: 30/07/2024 14:45

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 7.5e Viewpoint 1: Cairns-Balkello Hill





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: 30/07/2024 14:45

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Proposed new 400KV to Hurlie / Kintore

Emmock to Tealing tie-back West

Emmock to Tealing tie-back East

SSEN Emmock Substation: Visualisations Figure 7.5f Viewpoint 1: Cairns-Balkello Hill