260000

280000

600000

Legend

- Proposed Turbine Location (200 m Tip Height)
- Proposed Turbine Location (230 m Tip Height)
- 5 - 45 km Buffer of Turbine Locations (5 km Intervals)
- (2) Viewpoint Location
- Additional Wireline Location

Status of Cumulative Wind Farms

- Planning

Zones of Theoretical Visibility

In Planning Quantan's Hill

Euchanhead

T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19

Quantans Hill Wind Farm

CARSPHAIRN FOREST

SANQUHAR

New Cumnock

Kirkconnel

Kelloholm

Note

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/-2 m) up to 40 km from turbine locations, and OS Terrain 50 dataset (+/-10 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for NatureScot February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed AEI turbine locations for Euchanhead. The baseline ZTV has been generated from In Planning turbine locations listed below.
- The proposed, operational and consented turbine blade tips heights that have been used for generating the ZTV are listed below:
  - Euchanhead = 200/230 m
  - Quantan's Hill = 200 m
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV has been generated up to 65 km from the proposed Euchanhead turbines.
- Please refer to Figure 3.1 for Site Application Boundary.

ScottishPower Renewables

Rev	Date	By	Comment
A	23/07/25	AA	First Issue.

1:100,000 Scale @ A3

0 3 6 Km

Note: Infrastructure shown at appropriate scale.
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Euchanhead Renewable Energy Development AEI

Chapter 7 - Landscape and Visual Amenity

ZTV to Blade Tip: In Planning Quantan's Hill with Euchanhead

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AEI Figure	7.31

Datum: OSGB36
Projection: OSNG