




**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 (1.5 - 2.5 m Root Mean Square Error (RMSE)). 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 Scottish Natural Heritage (SNH) 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 turbine locations for Carn Fearnna.
- The proposed turbine blade tips heights of 180 and 200 m have been used for generating the ZTV.
- 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.





 Site Boundary


 Local Area of Influence


 Proposed Turbine Location (180 m Blade Tip Height)

 Proposed Turbine Location (200 m Blade Tip Height)

 Accommodation Receptor

 Railway

 A Road

 Corepath

**Zone of Theoretical Visibility (Bare Earth Scenario):**

**Number of Blade Tips Theoretically Visible**

1 - 2

3 - 4

5 - 6

7 - 9

1:60,000 on A3

0

1

2

Kilometres

Produced By: RD

Version: 2

Checked By: JRS

Date: 31/03/2025

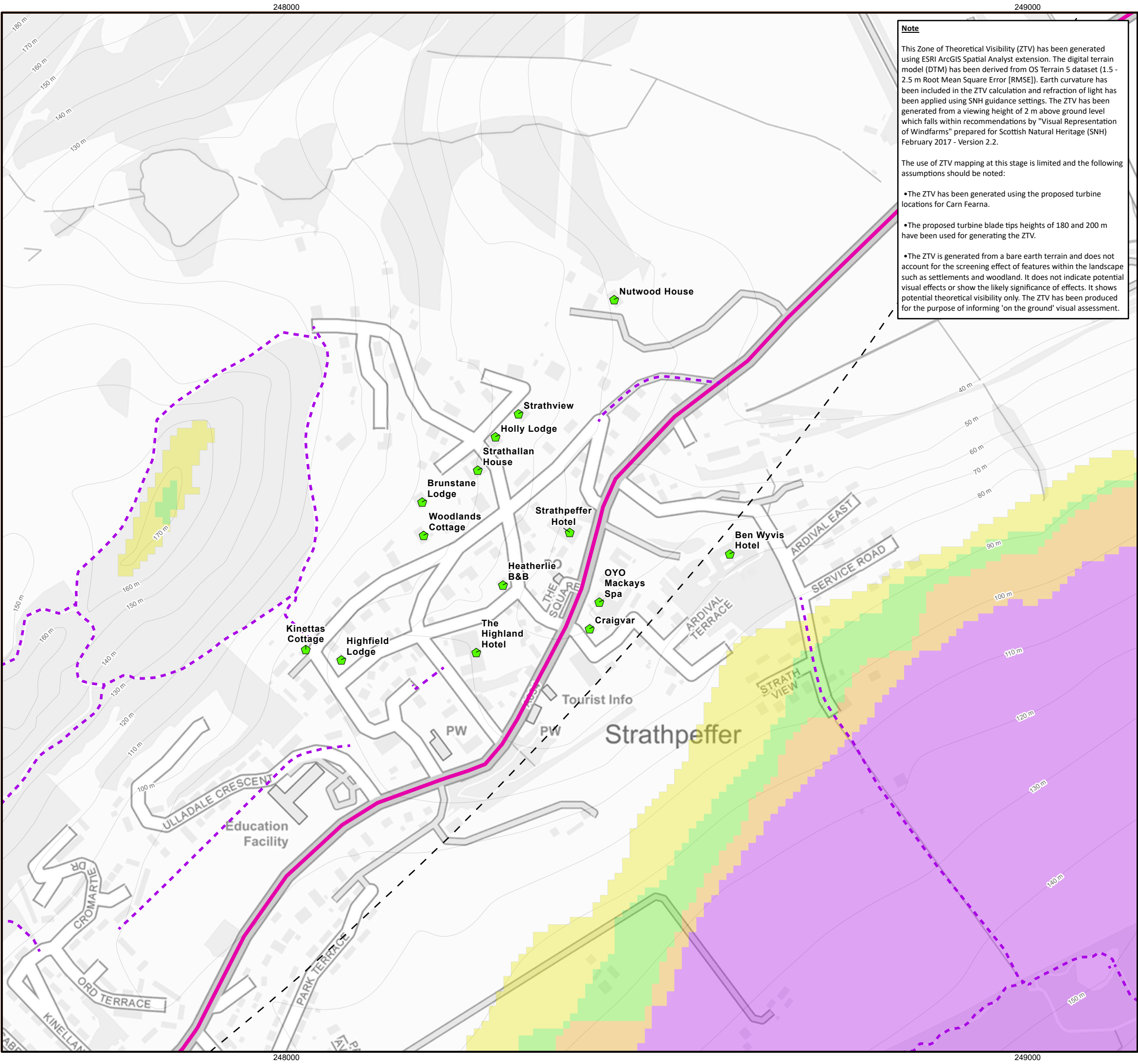
**Figure 14.2a**

**Accommodation Receptors - Overview**

**Carn Fearnna Wind Farm**

**Environmental Impact Assessment Report**





- Local Area of Influence
- Accommodation Receptor
- A Road
- Corepath

**Zone of Theoretical Visibility (Bare Earth Scenario):**

**Number of Blade Tips Theoretically Visible**

- 1 - 2
- 3 - 4
- 5 - 6
- 7 - 9

1:5,000 on A3

0 100 200 Metres

Produced By: RD Version: 2

Checked By: JRS Date: 31/03/2025

**Figure 14.2b**

**Accommodation Receptors - Strathpeffer**

**Carn Fearna Wind Farm**

**Environmental Impact Assessment Report**