

4

LVIA

## Chapter 4 - LVIA

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**UNSHINAGH WIND FARM**

**FIGURES 4.1 - 4.4**

**BASELINE ASSESSMENT  
FIGURES**

**PURPOSE AND UNDERSTANDING OF THESE FIGURES:**

These map-based Figures provide information on the baseline conditions within the 30 km Study Area that has been used for this Landscape and Visual Impact Assessment. They must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.

For ease of reference, the Reverse Zone of Theoretical Visibility (ZTV) is shown on Figure 4.3. The shaded areas indicate parts of the Study Area which would experience no visibility of the Development. The same is illustrated in Figure 4.7, page 5/5 and the means of understanding each of the ZTV diagrams is further explained on Figures 4.5 – 4.10.

Figure 4.1 illustrates the location of statutory landscape designations defined by planning policy and Development Plans. These provide evidence of the value placed on various parts of the Study Area for landscape and/ or visual characteristics and which may be subject to particular development control or planning policies. Non-statutory classifications, such as tourist routes and visitor attractions within the Study Area are also mapped on this figure. These give an indication of the wider value of the Study Area to society although these classifications may not equate to any statutory protection.

Landscape and Seascape Character Areas (LCAs and SCAs) are presented separately on Figure 4.2. These are defined by published documents: the Northern Ireland Landscape Character Assessment for Northern Ireland (NILCA) defines areas of distinct, recognisable or common character; the Northern Ireland Regional Seascape Character Assessment (NIRSCA) defines similar areas along the coast; The Northern Ireland Regional Landscape Character Assessment (NIRLCA) defines broader areas of similar character and has been more recently updated than the NILCA. LCAs are further analysed by site survey and, where they are not deemed to be of relevance to this Development, this is indicated on the figure.

Figure 4.3 illustrates the location of Provisional Viewpoints that were used to gain an initial understanding of the visual characteristics of the Development within the Study Area. It also illustrates the location of final Viewpoints that were shortlisted via the viewpoint selection process to provide a representative sample of viewers (visual receptors) and types of views of the Development across the Study Area and, most importantly, to demonstrate potential views of the Development rather than to show the screening effect of landscape features. A full and detailed description of the viewpoint selection process is provided in Technical Appendix 4.4 and should be referred to in conjunction with this Figure.

Figure 4.4 illustrates the locations of other wind farms and single turbines that are considered to form the 'Cumulative Baseline' for this LVIA which comprises existing, consented and proposed (in-planning) wind farms and single turbines which are likely to be visible from the selected Viewpoints (see Figures 4.11 – 4.30). A full description of the Cumulative Baseline is provided in Technical Appendix 4.5.

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**LANDSCAPE AND VISUAL  
IMPACT ASSESSMENT**

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TURBINE LAYOUT NO:  
pNIRuns024

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







**UNSHINAGH WIND FARM**

**FIGURE 4.1**

**LANDSCAPE DESIGNATIONS AND CLASSIFICATIONS**

**KEY**

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
- Statutory Designations**
  -  Antrim Coast and Glens Area of Outstanding Natural Beauty
  -  Registered Parks, Gardens and Demesnes
- Non-Statutory Classifications**
  -  Scenic drives
  -  Footpaths
  -  National Cycle Networks
  -  Visitor attractions and destinations

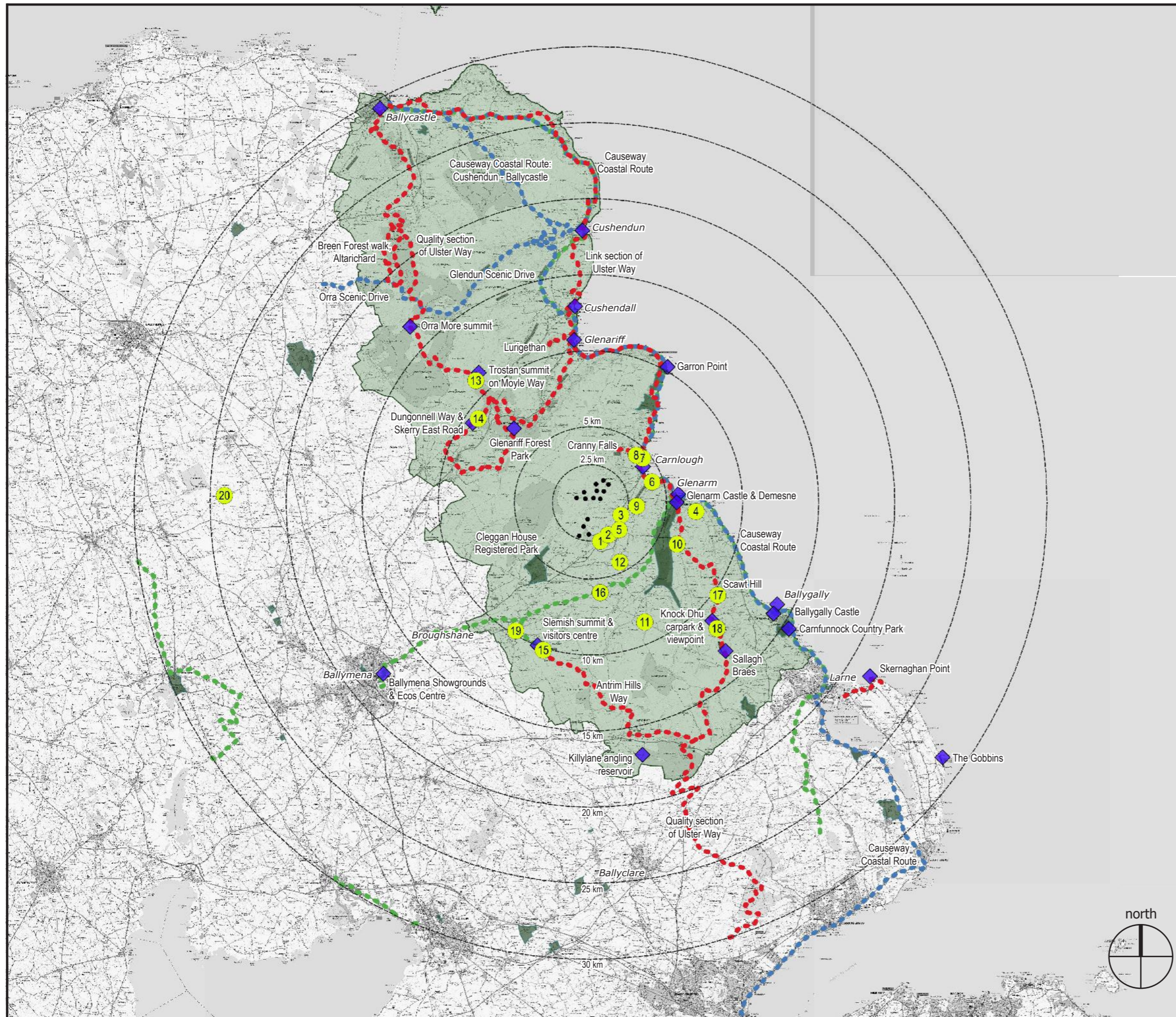
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**LANDSCAPE AND VISUAL  
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<b>TURBINE LAYOUT NO:</b> pNIRuns024		0 5 10km	

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






**UNSHINAGH WIND FARM**

**FIGURE 4.2**

**LANDSCAPE AND SEASCAPE CHARACTER AREAS**

**KEY**

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
-  Landscape Character Area containing the Development
-  Other LCAs assessed in the LVIA
-  Regional Landscape Character Area containing the Development
-  Seascape Character Area assessed in the LVIA
-  Other LCAs not assessed in the LVIA
-  Other SCAs not assessed in the LVIA
-  Antrim Coast and Glens Area of Outstanding Natural Beauty

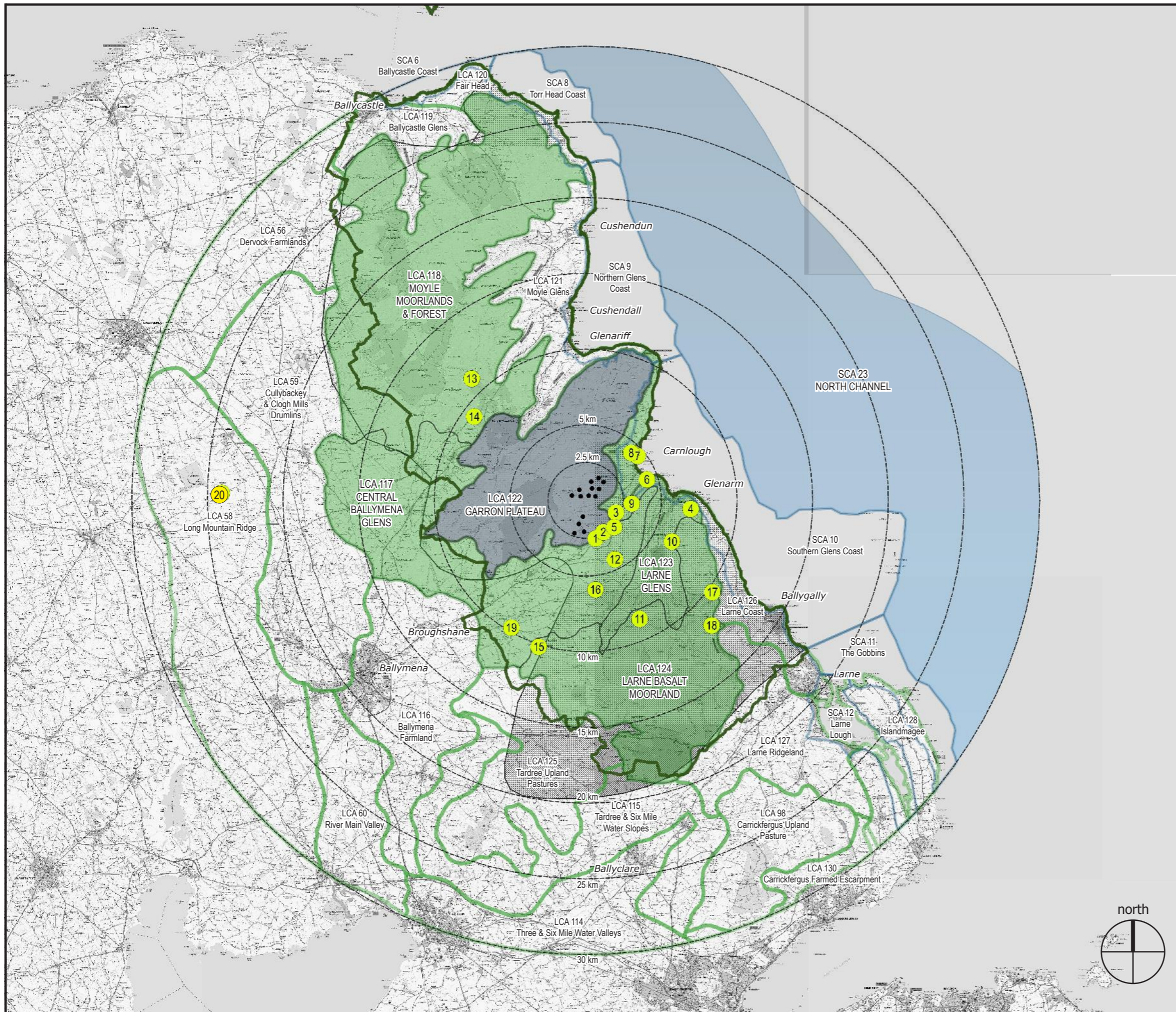
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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0 5 10km	

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**UNSHINAGH WIND FARM**

**FIGURE 4.3**

**VIEWPOINT SELECTION**

**INSET: Shortlisted Viewpoint Categories**

**Category A: Views in close proximity to the site boundary**  
Viewpoints 1 - 3, Figures 4.11 - 4.13

**Category B: Views on approaches to coastal settlements**  
Viewpoints 4 and 5, Figures 4.14 - 4.15












**Category C: Views from the coastal settlement of Carnlough**  
Viewpoints 6 - 8, Figures 4.16 - 4.18

**Category D: Views from the Antrim Glens**  
Viewpoints 9 - 12, Figures 4.19 - 4.22

**Category E: Elevated views from the Antrim Plateau**  
Viewpoints 13 - 18, Figures 4.23 - 4.28

**Category F: Views from the south-western edge of the AONB and wider Study Area**  
Viewpoints 19 - 20, Figures 4.29 and 4.30 (wireline-only)

**KEY**

-  Unshinagh proposed turbines
- Shortlisted viewpoint (see 'inset'):
-  Category A
-  Category B
-  Category C
-  Category D
-  Category E
-  Category F
-  Provisional Viewpoint location not shortlisted because it is represented by another Viewpoint
-  Provisional Viewpoint location not shortlisted due to absence of/ limited view
-  Antrim Coast and Glens Area of Outstanding Natural Beauty
-  Reverse Zone of Theoretical Visibility (see Figures 4.6 and 4.7 for detail)

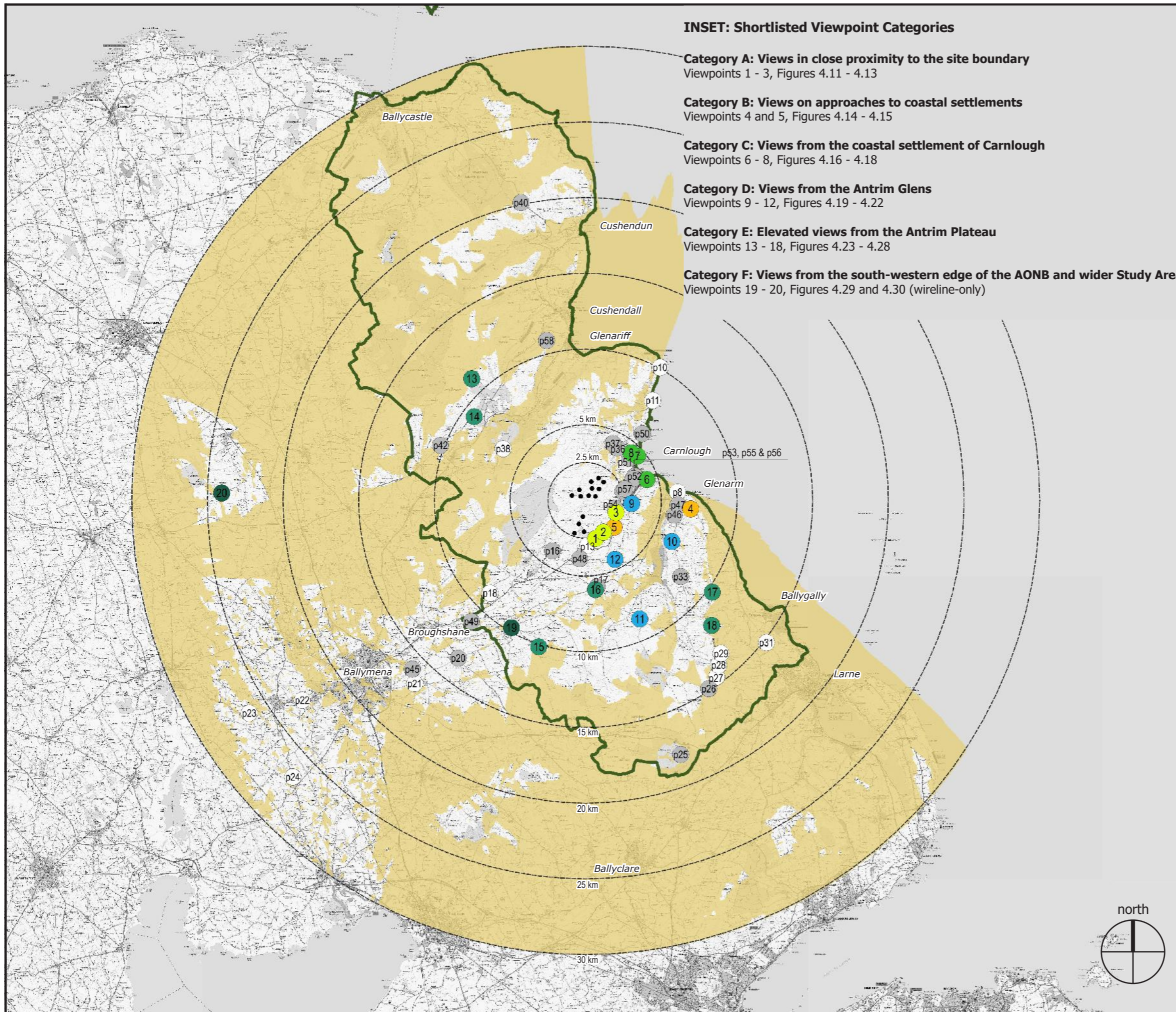
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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0 5 10km	

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# UNSHINAGH WIND FARM

## FIGURE 4.4

### CUMULATIVE BASELINE

#### KEY

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
-  Other wind farms within 30 km Study Area:  
Existing shown in red;  
Consented shown in orange;  
Proposed shown in green;  
Single turbines shown in pink
-  Antrim Coast and Glens Area of Outstanding Natural Beauty

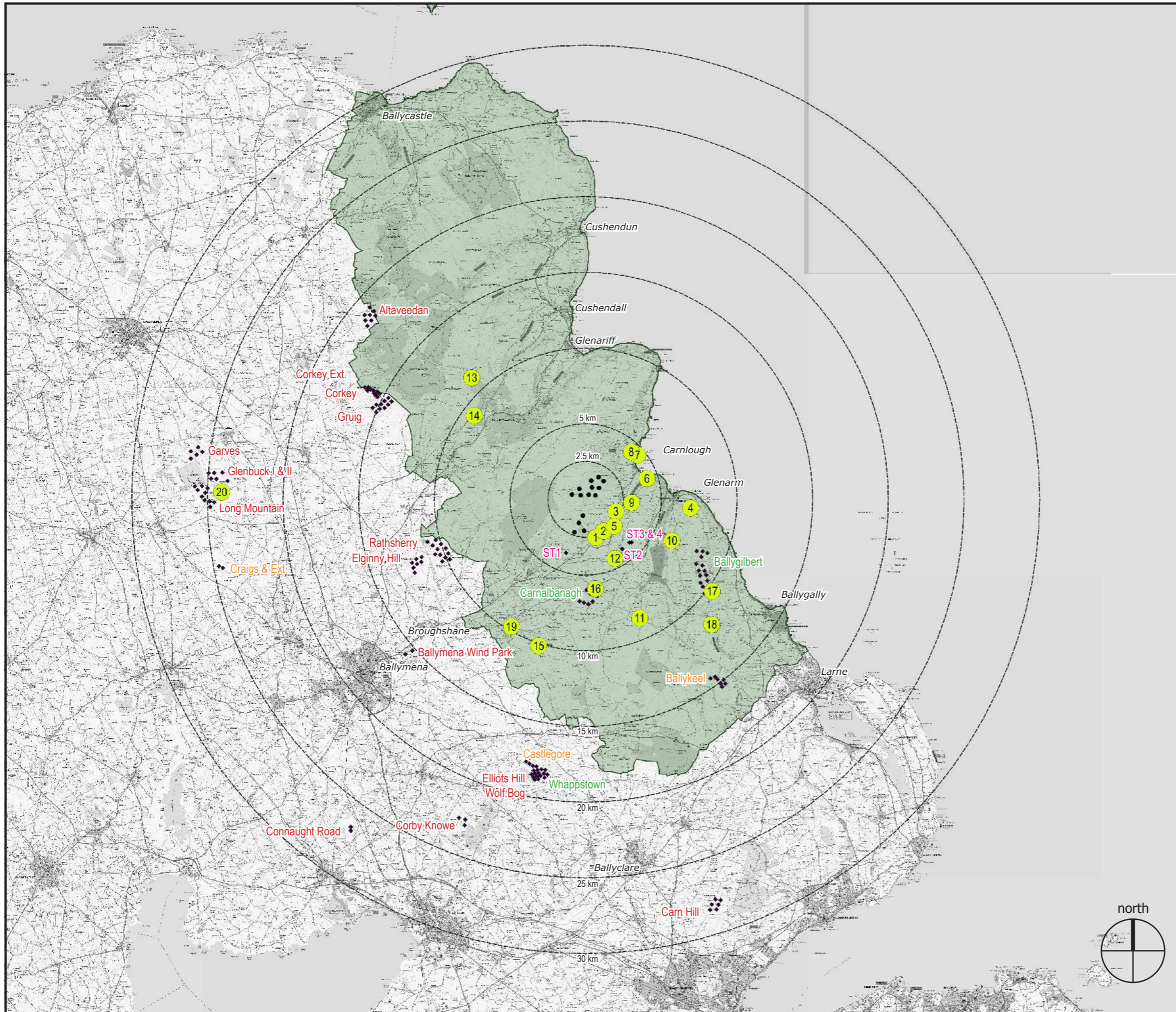
**NOTE:** This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement.

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#### LANDSCAPE AND VISUAL IMPACT ASSESSMENT

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TURBINE LAYOUT NO: pNIRuns024		0 5 10km	

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**UNSHINAGH WIND FARM**

**FIGURES 4.5 - 4.10**

**ZONE OF THEORETICAL  
VISIBILITY DIAGRAMS**

**PURPOSE AND UNDERSTANDING OF THESE FIGURES:**

These map-based figures provide information on the baseline conditions within the 30 km Study Area that has been used for this Landscape and Visual Impact Assessment. They must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the LVIA that is described in Technical Appendix 4.2.

A Zone of Theoretical Visibility (ZTV) is a map-based diagram showing where the Development and other wind farms in the Cumulative Baseline would theoretically be visible from within the Study Area. They are created using computer-generated contour data and are useful in providing an initial indication of visibility within the Study Area that allows for more detailed assessment in the field. They do not illustrate actual visibility because they do not take account of above-ground features such as vegetation or buildings, or contour variations between 50 m intervals. A number of ZTV scenarios are assessed in this LVIA and categories of theoretical visibility are indicated using different colours, for example, areas with theoretical visibility of all the proposed turbines would be indicated by one colour, and areas with visibility of lesser numbers of turbines would be indicated by contrasting colours. The coverage of these areas is expressed as a percentage of the overall Study Area.

Blade tip visibility illustrates any parts of the Study Area where at least one blade tip would theoretically be visible without taking account of screening provided by contour variations or land cover elements such as trees and hedgerows. It shows the highest potential levels of theoretical visibility but not necessarily the most realistic because blade tips may be counted even where they protrude only a small amount above a skyline and this type of visibility will change continuously as the turbines rotate. This approach is in accordance with the SNH recommendation to err on the side of over-representation of potential effects. Hub height ZTV diagrams represent a more realistic illustration because they show theoretical visibility of all points of the turbines to the hub/ nacelle, and therefore also include the upper parts of the turbine blades as a minimum. Reverse ZTV diagrams are used as a clear means of illustrating the parts of the Study Area where no turbines would be visible; 15 km and 30 km reverse blade tip ZTVs can be found in Figure 4.8.

The Study Area for this Development includes a large proportion of open sea and the ZTV diagrams, confirmed via site analysis, indicate that visibility of the Development from much of the coastal part of the Study Area would be screened by rising ground between the coast and the uplands on which the Development would be located. Sea-based visibility is largely restricted to open water where the number of visual receptors, and perception of the Development, are likely to be minimal. Therefore, ZTV diagrams have been produced to illustrate only land-based visibility on the basis of 15 km and 30 km radii using both blade tip and hub height calculations. These can be found in Figures 4.6 and 4.7.

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**LANDSCAPE AND VISUAL  
IMPACT ASSESSMENT**

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**UNSHINAGH WIND FARM**

**FIGURE 4.5**

**COMPARATIVE ZONE OF THEORETICAL VISIBILITY, 180m vs. 150m BLADE TIP HEIGHTS, 30km RADIUS**

**KEY**

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
- Zone of Theoretical Visibility of:
  -  Turbines with 150 m blade tip height across 42 % of Study Area
  -  Additional visibility of turbines with 180 m blade tip height across 3.18 % of Study Area
- Total area with theoretical visibility of at least 1 blade tip at 180 m tip height: 45.18 %
- Areas with no visibility are unshaded: 54.82 %
-  Antrim Coast and Glens Area of Outstanding Natural Beauty
- Turbine dimensions illustrated:  
 180 m max. tip height above ground level  
 136 m rotor diameter  
 112 m hub height

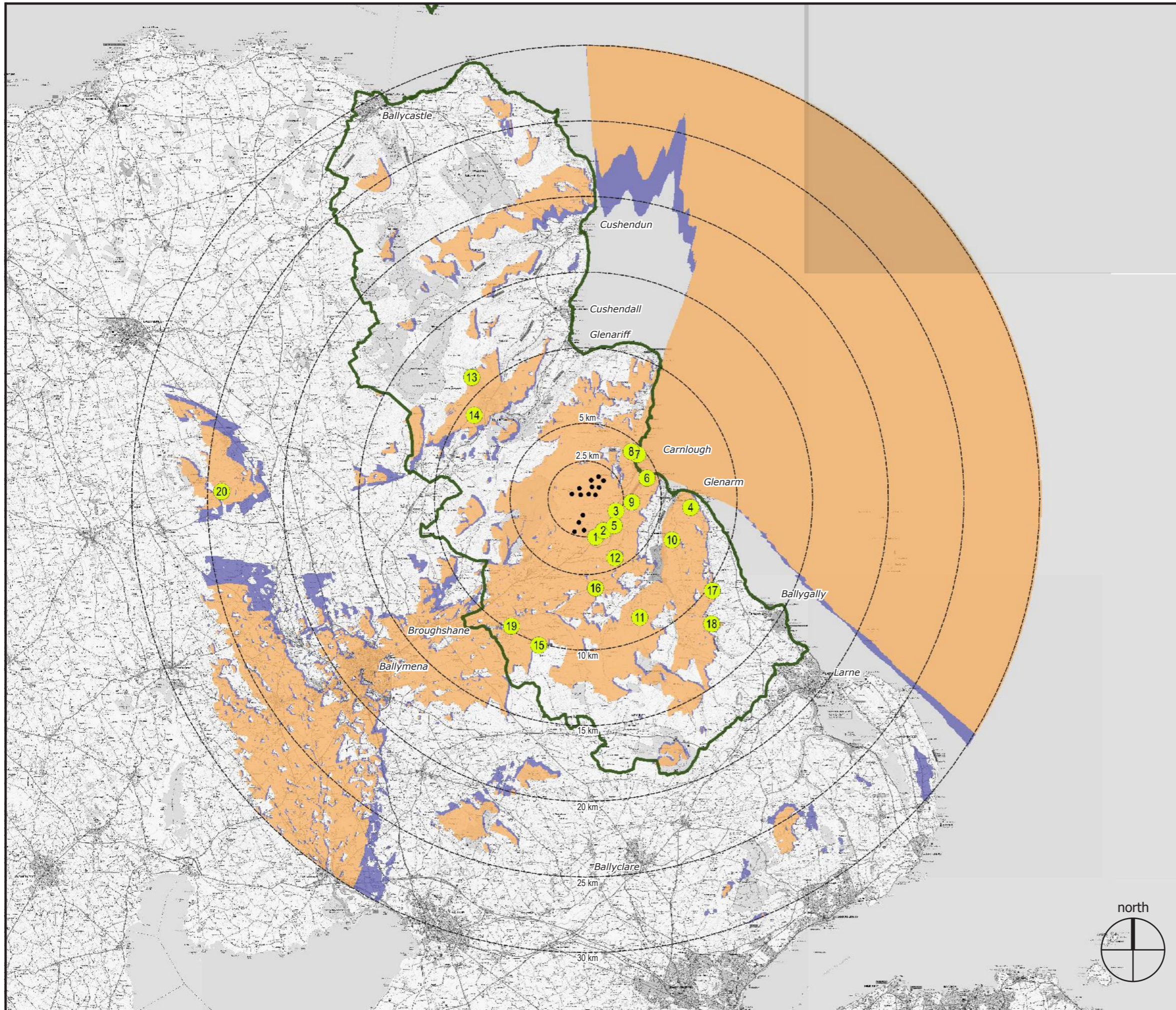
**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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**LANDSCAPE AND VISUAL IMPACT ASSESSMENT**

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TURBINE LAYOUT NO: pNIRuns024		0 5 10km	

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# UNSHINAGH WIND FARM

## FIGURE 4.6 (page 1 of 4)

### ZONE OF THEORETICAL VISIBILITY, 15 km RADIUS, BLADE TIP HEIGHT

#### KEY

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

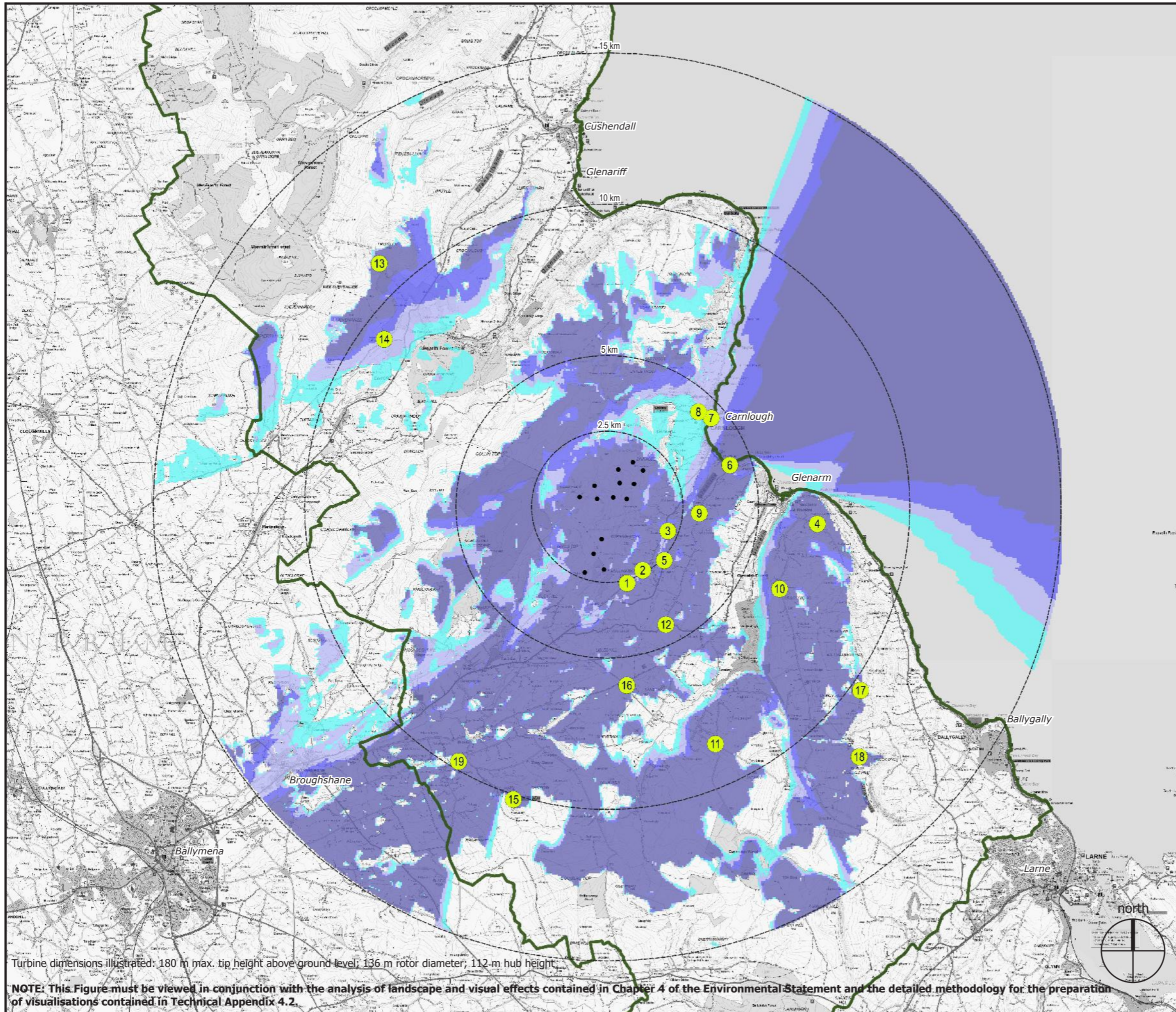
Zone of Theoretical Visibility of:

- 1 - 3 turbines across 6.59 % of Study Area
- 4 - 7 turbines across 6.51 % of Study Area
- 8 - 10 turbines across 5.80 % of Study Area
- 11 - 14 turbines across 34.94 % of Study Area

Total area with theoretical visibility of at least 1 blade tip: 53.84 %

Areas with no visibility are unshaded: 46.16 %

Antrim Coast and Glens Area of Outstanding Natural Beauty



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height.

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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#### LANDSCAPE AND VISUAL IMPACT ASSESSMENT

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TURBINE LAYOUT NO: pNIRuns024		0 5km	

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# UNSHINAGH WIND FARM

## FIGURE 4.6 (page 2 of 4)

### ZTV EXCLUDING SEA-BASED VISIBILITY, 15 km RADIUS, BLADE TIP HEIGHT

#### KEY

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

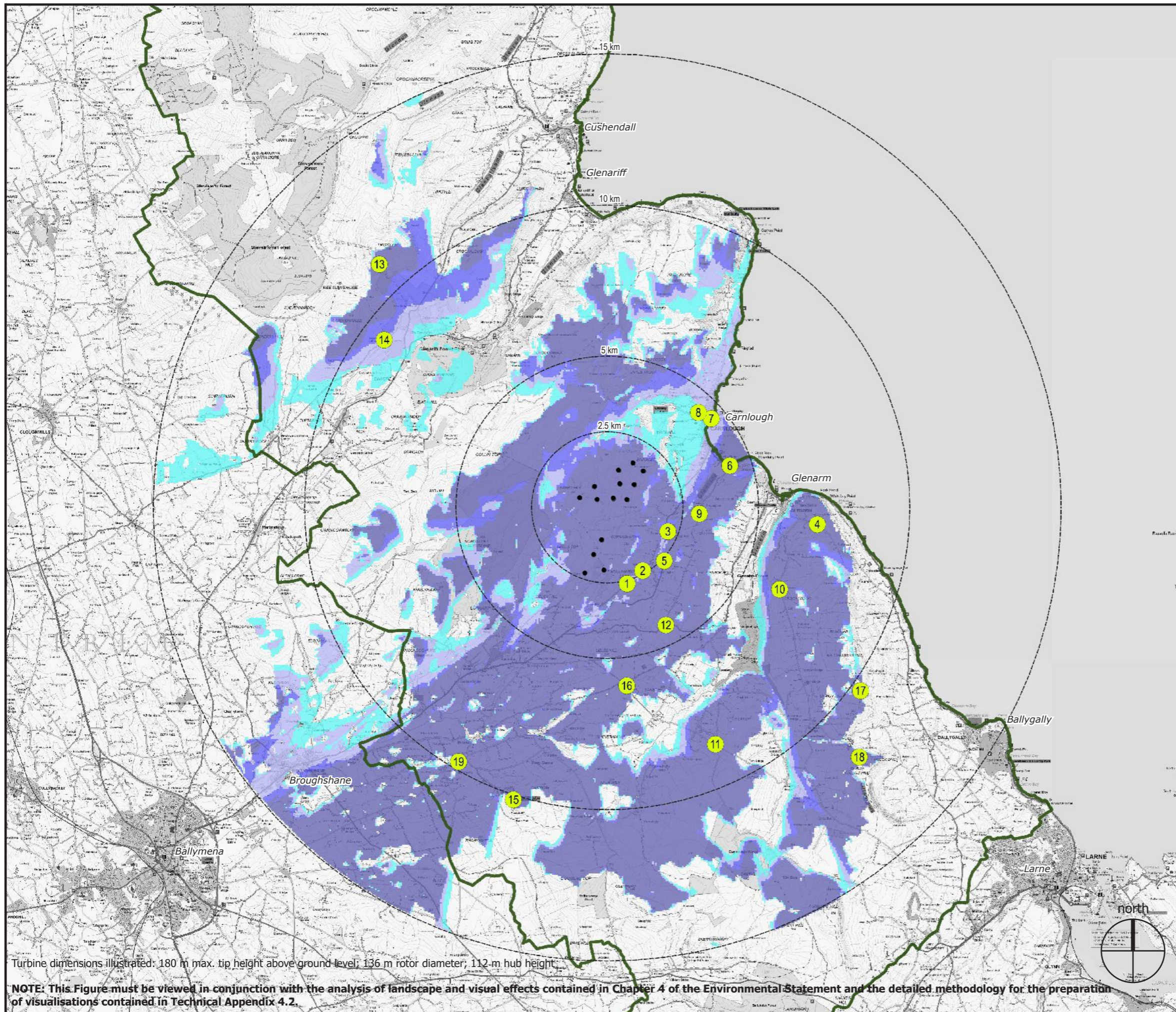
Zone of Theoretical Visibility of:

- 1 - 3 turbines across 5.41 % of Study Area
- 4 - 7 turbines across 4.93 % of Study Area
- 8 - 10 turbines across 3.67 % of Study Area
- 11 - 14 turbines across 22.91 % of Study Area

Total area with theoretical visibility of at least 1 blade tip: 36.92 %

Areas with no visibility are unshaded: 63.08 %

Antrim Coast and Glens Area of Outstanding Natural Beauty



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height.

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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#### LANDSCAPE AND VISUAL IMPACT ASSESSMENT

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TURBINE LAYOUT NO: pNIRuns024		0 5km	

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### UNSHINAGH WIND FARM

### FIGURE 4.6 (page 3 of 4)

### ZONE OF THEORETICAL VISIBILITY, 15 km RADIUS, HUB HEIGHT

#### KEY

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

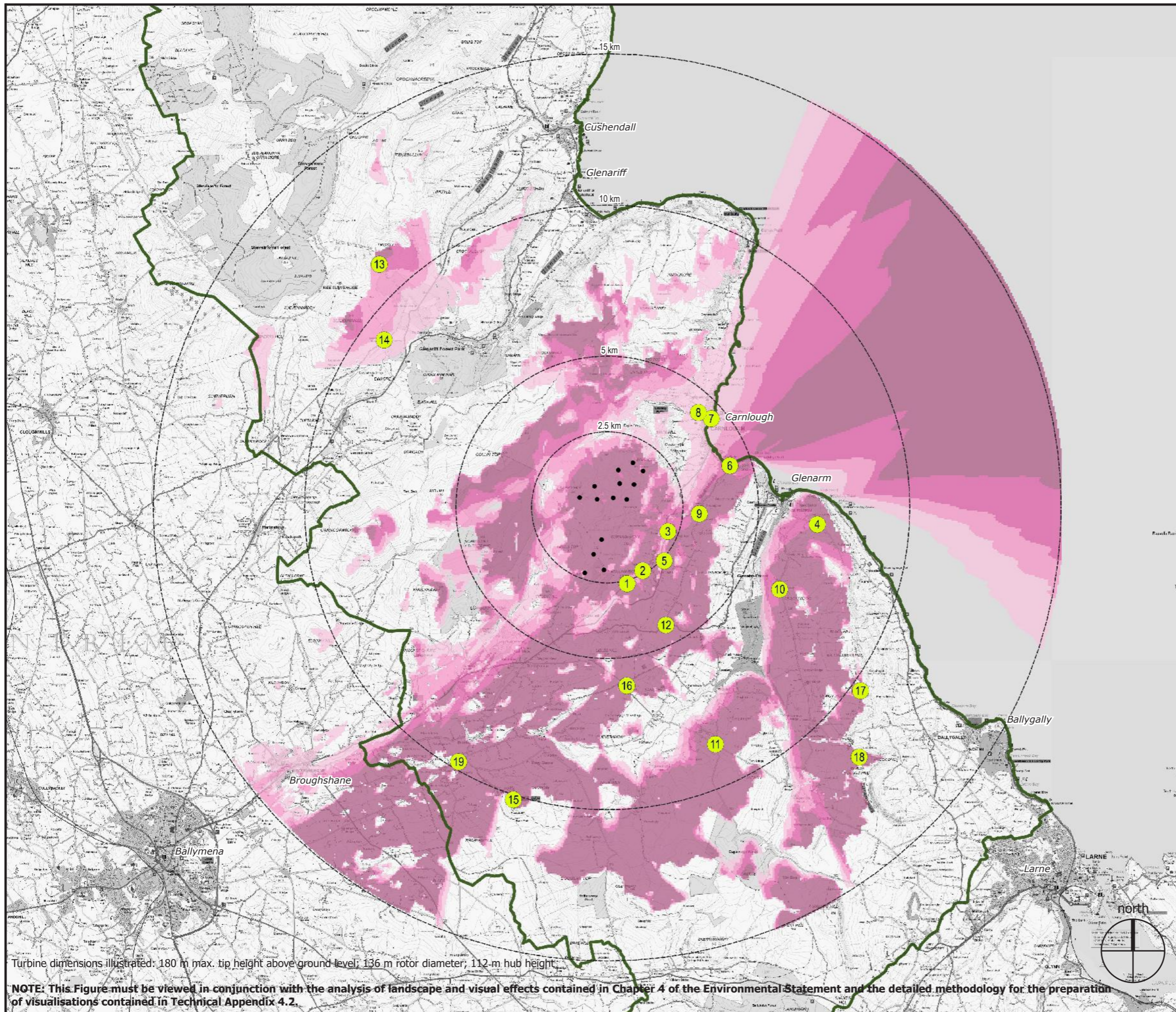
Zone of Theoretical Visibility of:

- 1 - 3 turbines across 8.24 % of Study Area
- 4 - 7 turbines across 7.54 % of Study Area
- 8 - 10 turbines across 7.41 % of Study Area
- 11 - 14 turbines across 24.47 % of Study Area

Total area with theoretical visibility of at least 1 hub: 47.66 %

Areas with no visibility are unshaded: 52.34 %

Antrim Coast and Glens Area of Outstanding Natural Beauty



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height.

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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#### LANDSCAPE AND VISUAL IMPACT ASSESSMENT

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TURBINE LAYOUT NO: pNIRuns024		0 5km	

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**UNSHINAGH WIND FARM**

**FIGURE 4.6 (page 4 of 4)**

**ZTV EXCLUDING SEA-BASED VISIBILITY, 15 km RADIUS, HUB HEIGHT**

**KEY**

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

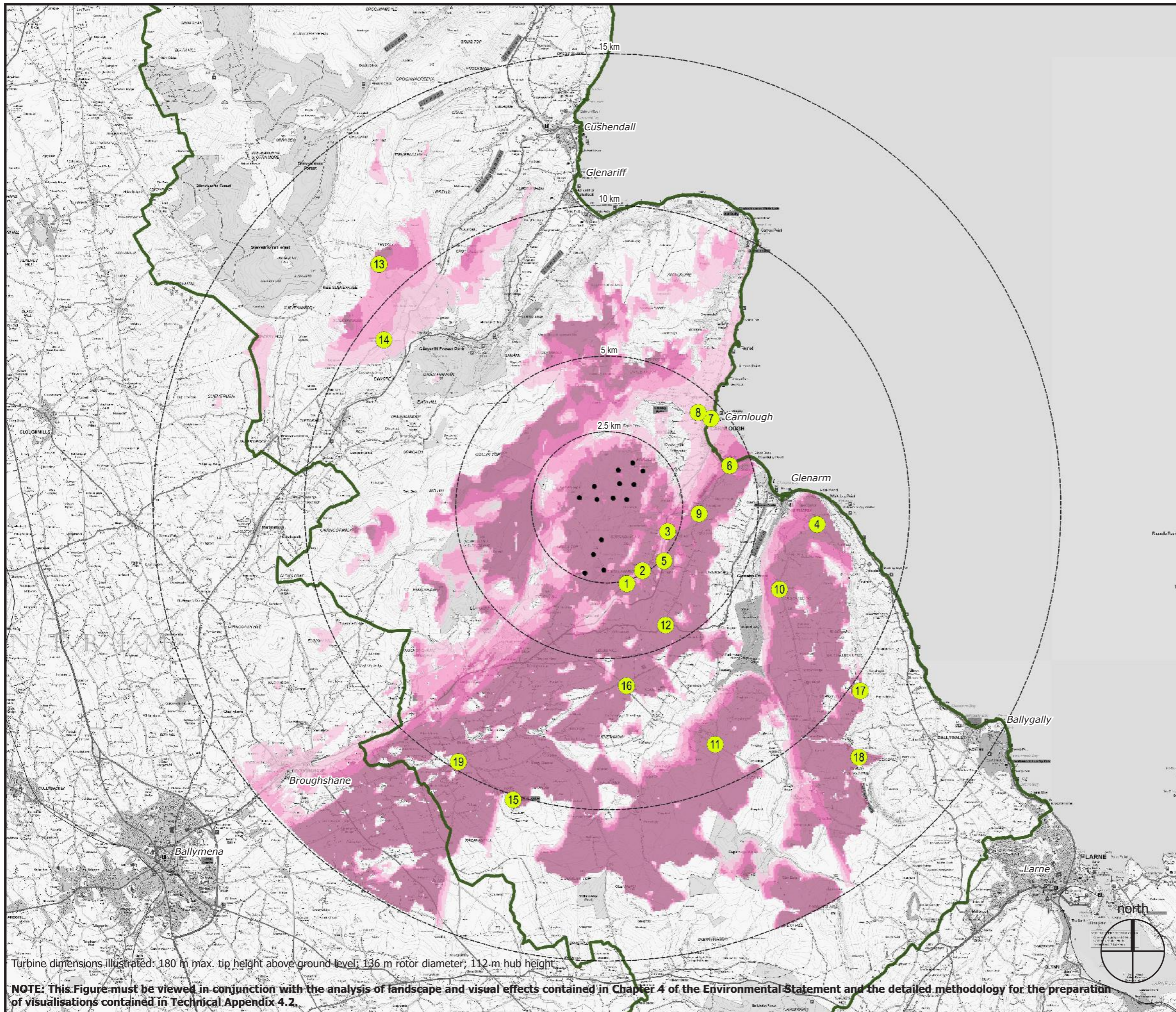
Zone of Theoretical Visibility of:

- 1 - 3 turbines across 6.12 % of Study Area
- 4 - 7 turbines across 4.87 % of Study Area
- 8 - 10 turbines across 3.34 % of Study Area
- 11 - 14 turbines across 16.91 % of Study Area

Total area with theoretical visibility of at least 1 hub: 31.24 %

Areas with no visibility are unshaded: 68.76 %

Antrim Coast and Glens Area of Outstanding Natural Beauty



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height.

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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**LANDSCAPE AND VISUAL IMPACT ASSESSMENT**

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TURBINE LAYOUT NO: pNIRuns024		0 5km	

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**UNSHINAGH WIND FARM**

**FIGURE 4.7 (page 1 of 4)**

**ZONE OF THEORETICAL VISIBILITY, 30 km RADIUS, BLADE TIP HEIGHT**

**KEY**

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

Zone of Theoretical Visibility of:

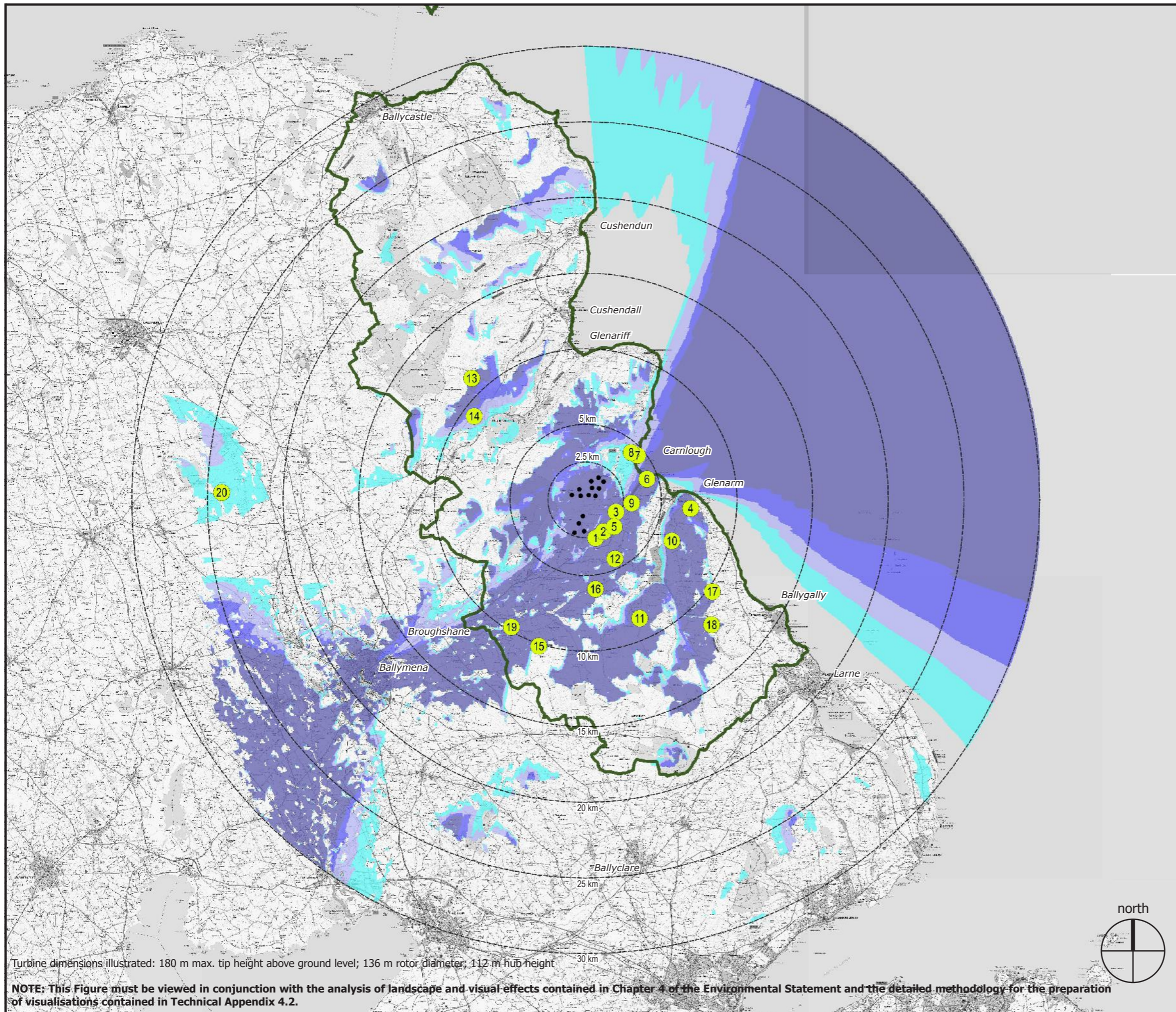
- 1 - 3 turbines across 8.04 % of Study Area
- 4 - 7 turbines across 5.17 % of Study Area
- 8 - 10 turbines across 4.21 % of Study Area
- 11 - 14 turbines across 27.76 % of Study Area

Total area with theoretical visibility of at least 1 blade tip: 45.18 %

Areas with no visibility are unshaded: 54.82 %

Antrim Coast and Glens Area of Outstanding Natural Beauty

Percentage of total AONB with theoretical blade tip visibility = 36.40 %



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0      5      10km	

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**UNSHINAGH WIND FARM**

**FIGURE 4.7 (page 2 of 4)**

**ZTV EXCLUDING SEA-BASED VISIBILITY, 30 km RADIUS, BLADE TIP HEIGHT**

**KEY**

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

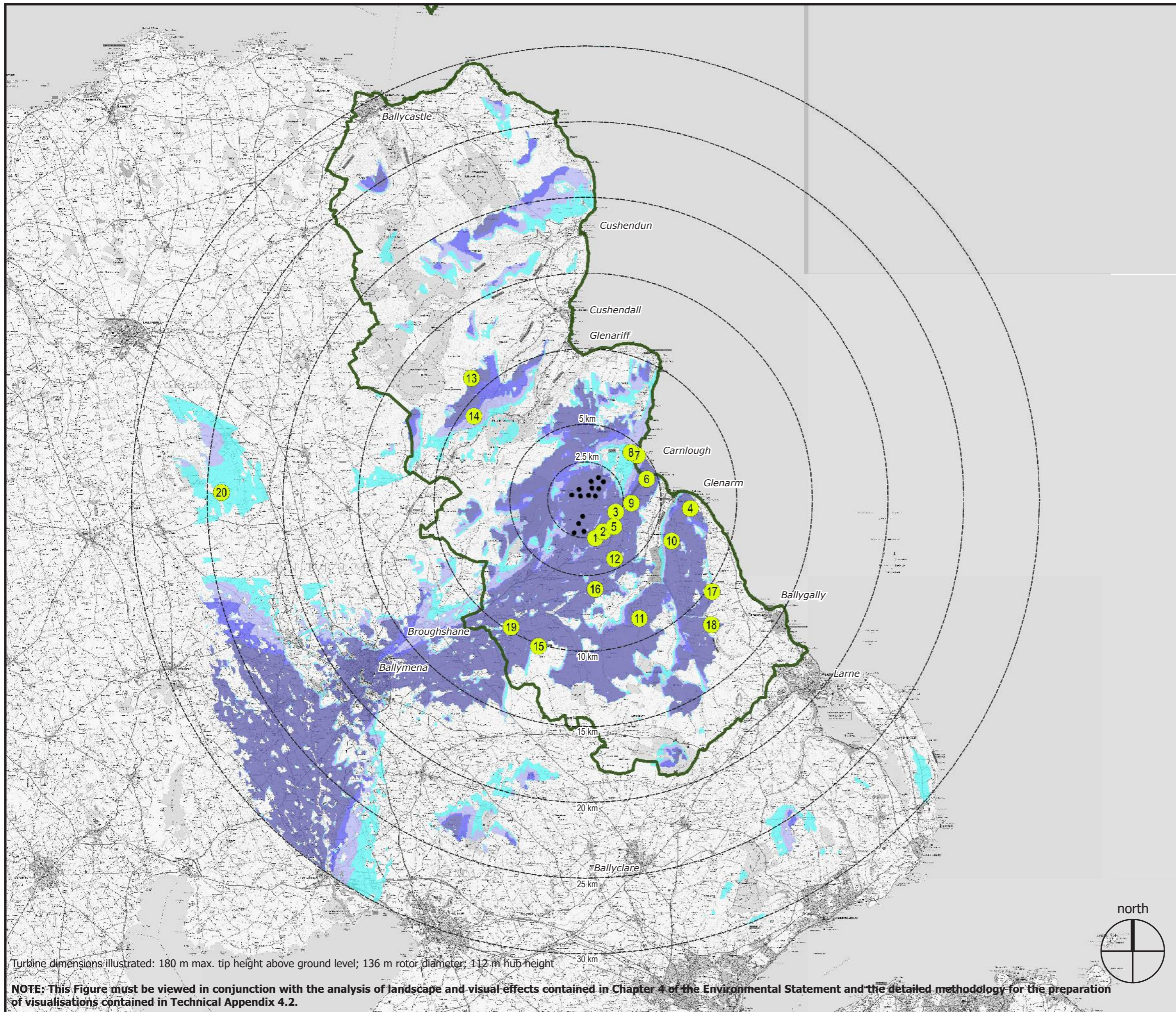
Zone of Theoretical Visibility of:

- 1 - 3 turbines across 3.92 % of Study Area
- 4 - 7 turbines across 2.67 % of Study Area
- 8 - 10 turbines across 1.70 % of Study Area
- 11 - 14 turbines across 9.09 % of Study Area

Total area with theoretical visibility of at least 1 blade tip: 17.38 %

Areas with no visibility are unshaded: 82.62 %

Antrim Coast and Glens Area of Outstanding Natural Beauty



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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**LANDSCAPE AND VISUAL  
IMPACT ASSESSMENT**

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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0 5 10km	

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### UNSHINAGH WIND FARM

### FIGURE 4.7 (page 3 of 4)

### ZONE OF THEORETICAL VISIBILITY, 30 km RADIUS, HUB HEIGHT

#### KEY

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

Zone of Theoretical Visibility of:

- 1 - 3 turbines across 6.20 % of Study Area
- 4 - 7 turbines across 5.11 % of Study Area
- 8 - 10 turbines across 5.86 % of Study Area
- 11 - 14 turbines across 19.77 % of Study Area

Total area with theoretical visibility of at least 1 hub: 36.94 %

Areas with no visibility are unshaded: 63.06 %

Antrim Coast and Glens Area of Outstanding Natural Beauty

Percentage of total AONB with theoretical hub height visibility = 30.32 %

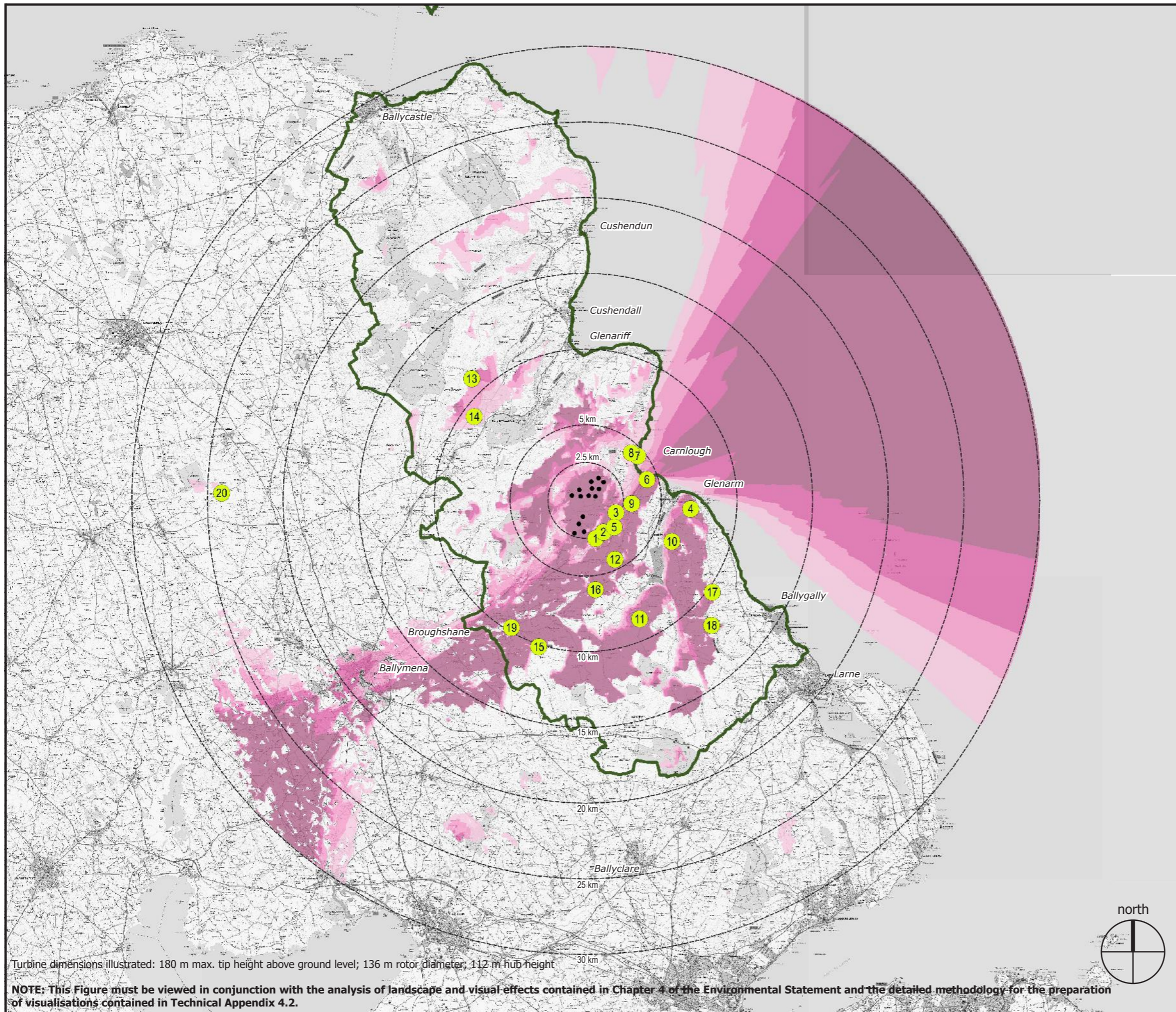
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#### LANDSCAPE AND VISUAL IMPACT ASSESSMENT

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TURBINE LAYOUT NO: pNIRuns024	0 5 10km
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Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**










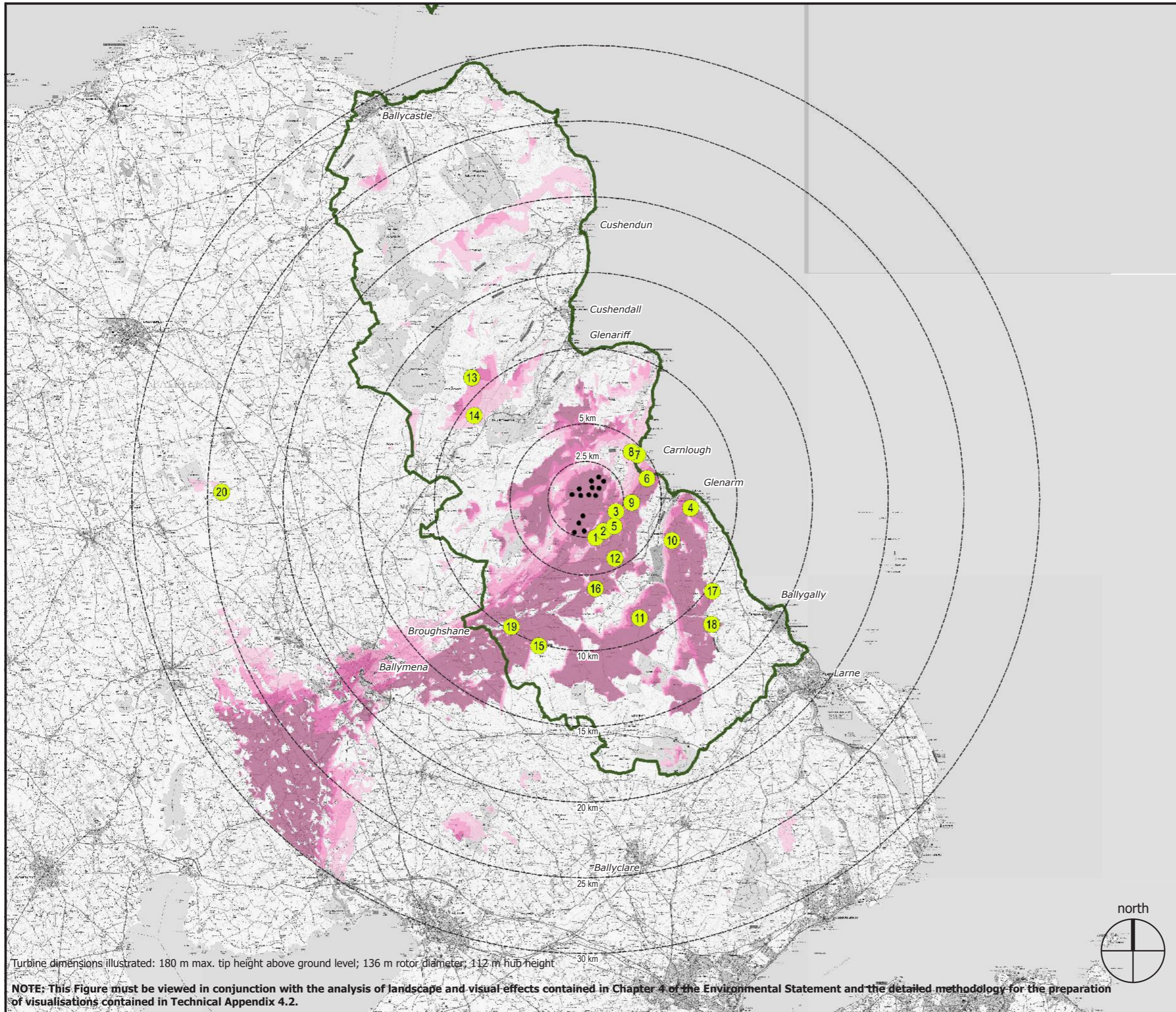
**UNSHINAGH WIND FARM**

**FIGURE 4.7 (page 4 of 4)**

**ZTV EXCLUDING SEA-BASED VISIBILITY, 30 km RADIUS, HUB HEIGHT**

**KEY**

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
- Zone of Theoretical Visibility of:
  -  1 - 3 turbines across 3.00 % of Study Area
  -  4 - 7 turbines across 2.18 % of Study Area
  -  8 - 10 turbines across 1.33 % of Study Area
  -  11 - 14 turbines across 5.90 % of Study Area
- Total area with theoretical visibility of at least 1 hub: 12.41 %
- Areas with no visibility are unshaded: 87.59 %
-  Antrim Coast and Glens Area of Outstanding Natural Beauty



Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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**LANDSCAPE AND VISUAL  
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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0      5      10km	

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# UNSHINAGH WIND FARM

## FIGURE 4.8 (page 1 of 2)

### REVERSE ZONE OF THEORETICAL VISIBILITY, 15 km RADIUS, BLADE TIP HEIGHT

#### KEY

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
-  Parts of Study Area with no visibility of the Development: 46.16 %
-  Antrim Coast and Glens Area of Outstanding Natural Beauty

Turbine dimensions illustrated:  
 180 m max. tip height above ground level  
 136 m rotor diameter  
 112 m hub height

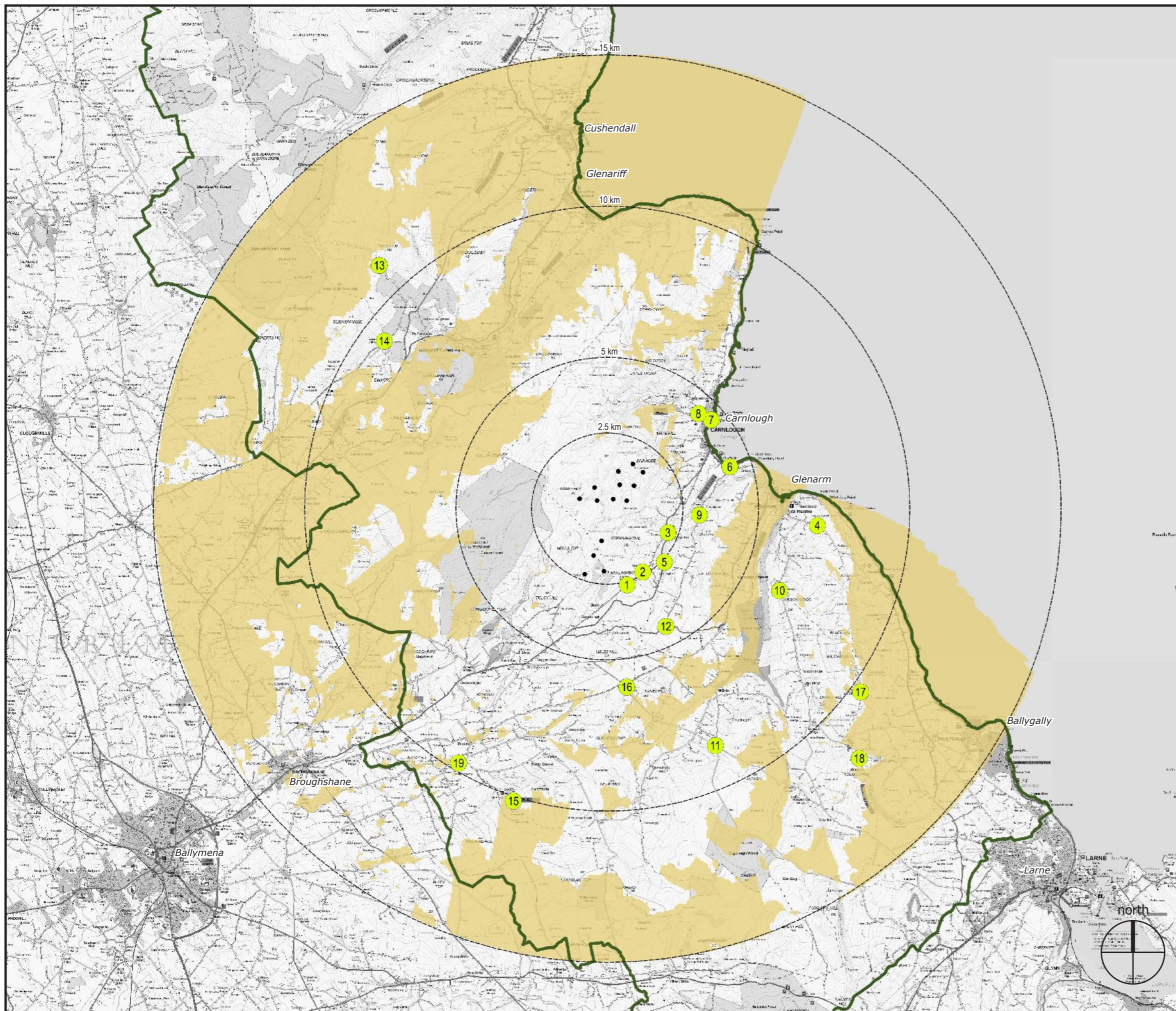
**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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#### LANDSCAPE AND VISUAL IMPACT ASSESSMENT

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TURBINE LAYOUT NO: pNIRuns024		0 5km	

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**UNSHINAGH WIND FARM**

**FIGURE 4.8 (page 2 of 2)**

**REVERSE ZONE OF THEORETICAL VISIBILITY, 30 km RADIUS, BLADE TIP HEIGHT**

**KEY**

-  Unshinagh proposed turbines
-  LVIA Viewpoint locations (see Figure 4.3 for more detail)
-  Parts of Study Area with no visibility of the Development: 54.82 %
-  Antrim Coast and Glens Area of Outstanding Natural Beauty

Turbine dimensions illustrated:  
180 m max. tip height above ground level  
136 m rotor diameter  
112 m hub height

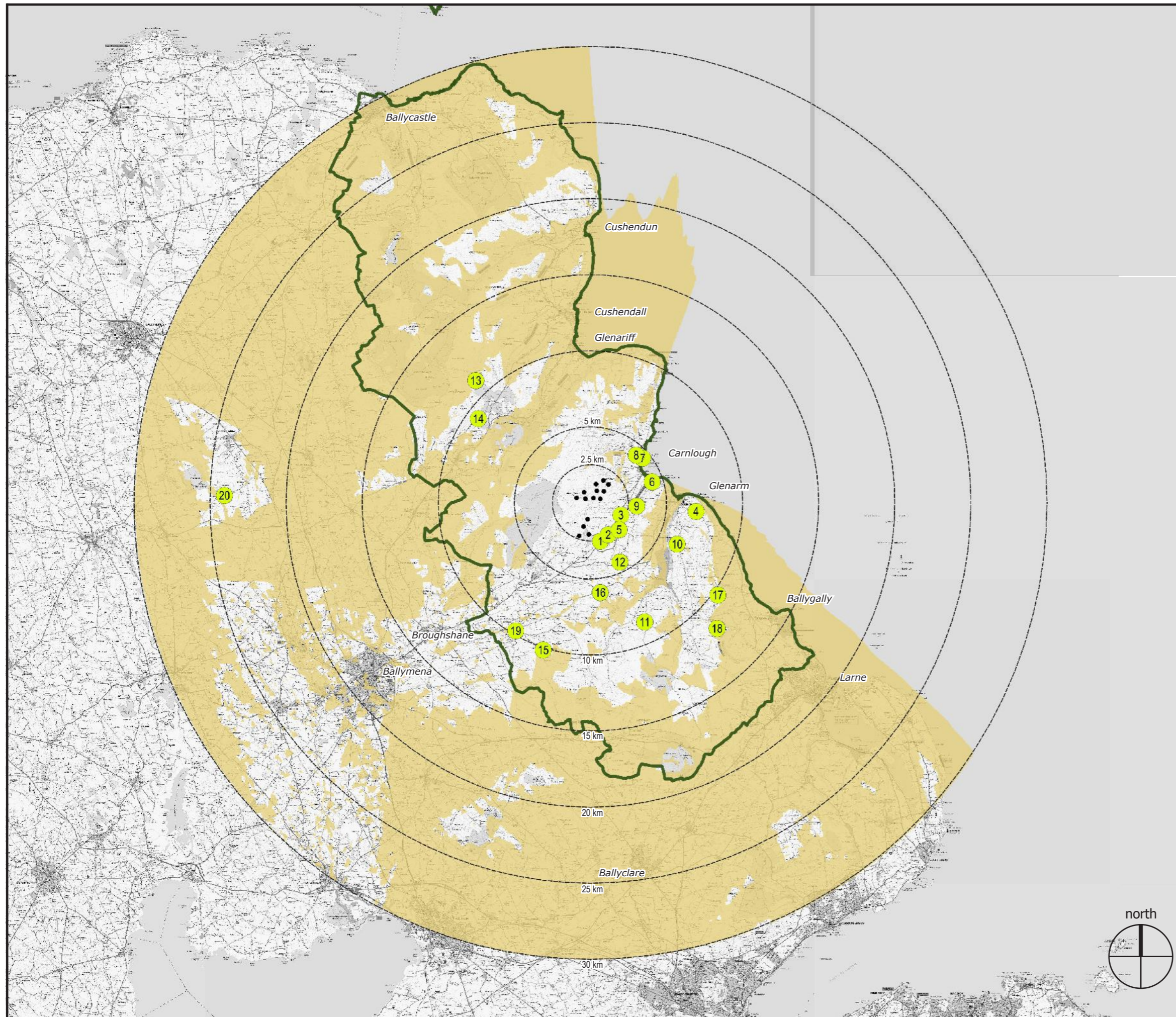
**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**

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**LANDSCAPE AND VISUAL IMPACT ASSESSMENT**

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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0 5 10km	

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**UNSHINAGH WIND FARM**

**FIGURE 4.9**

**CUMULATIVE ZTV, EXISTING & CONSENTED WIND FARMS, 30 km RADIUS, BLADE TIP HEIGHT**

**KEY**

Unshinagh proposed turbines

LVIA Viewpoint locations (see Figure 4.3 for more detail)

Existing and consented wind farms (see Figure 4.4 for detail)

Zone of Theoretical Visibility of:

Existing and consented wind farms where Development is not visible: 37.92 %

the Development where there is already visibility of other wind farms: 36.83 %

Total area within 30 km with theoretical visibility of other wind farms: 74.75 %

Additional theoretical visibility of Development where there is no visibility of other wind farms: 8.35 %

Total area within 30 km with theoretical visibility of Development: 45.18 %

Parts of Study Area with no visibility of wind farms are unshaded: 16.90 %

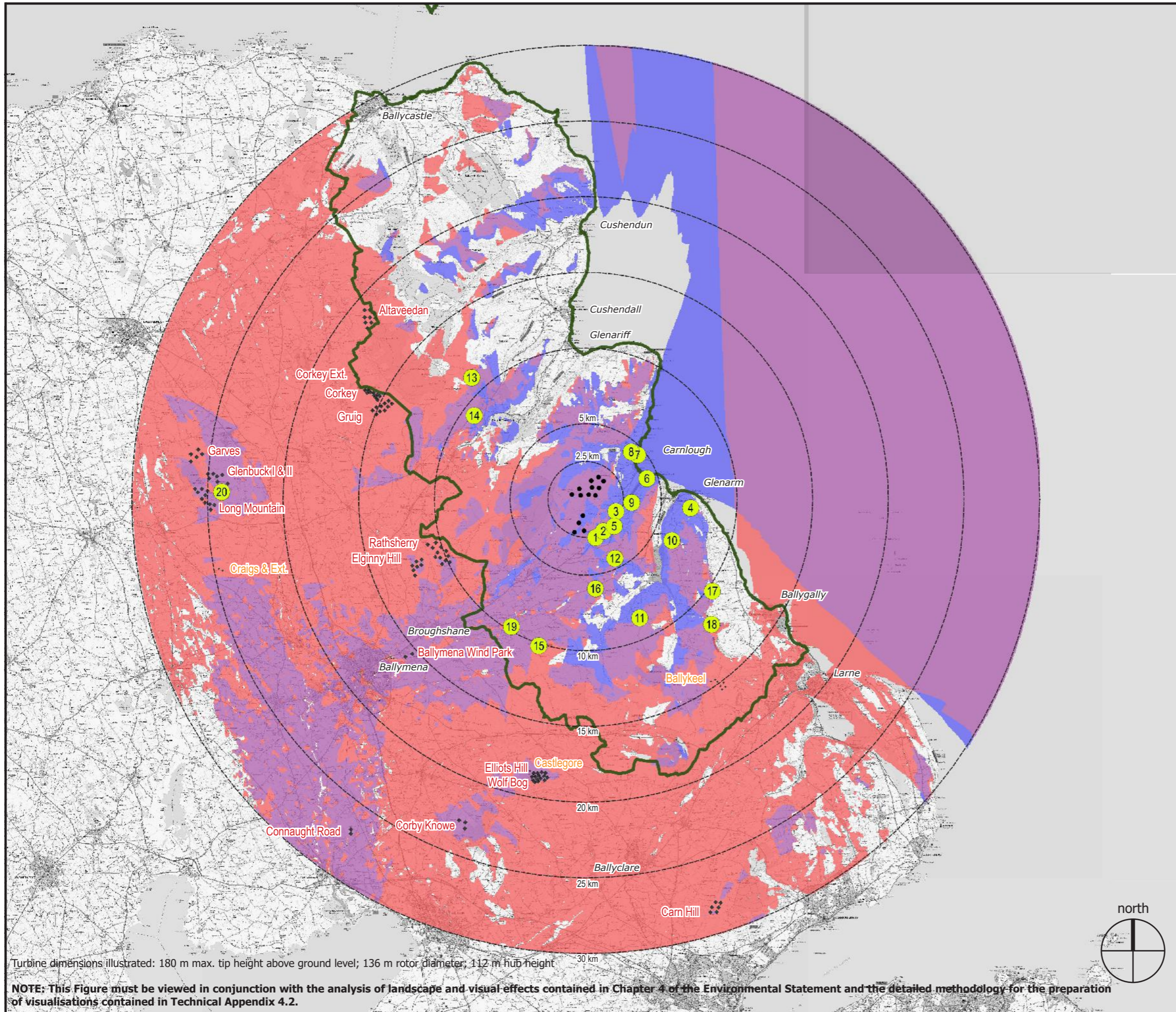
Antrim Coast and Glens Area of Outstanding Natural Beauty

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**LANDSCAPE AND VISUAL IMPACT ASSESSMENT**

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TURBINE LAYOUT NO: <b>pNIRuns024</b>		0 5 10km	

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Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**



**UNSHINAGH WIND FARM**

**FIGURE 4.10**

**CUMULATIVE ZTV,  
PROPOSED WIND FARMS,  
30km RADIUS, BLADE TIP**

**KEY**

Unshinagh proposed turbines

LVIA Viewpoint locations  
(see Figure 4.3 for more detail)

Proposed wind farms  
(see Figure 4.4 for detail)

Zone of Theoretical Visibility of:

Proposed wind farms where Development is not visible: 21.33 %

the Development where there is already visibility of other wind farms: 42.89 %

Total area within 30 km with theoretical visibility of other wind farms: 64.22 %

Additional theoretical visibility of Development where there is no visibility of other wind farms: 2.29 %

Total area within 30 km with theoretical visibility of Development: 45.18 %

Parts of Study Area with no visibility of wind farms are unshaded: 33.49 %

Antrim Coast and Glens Area of Outstanding Natural Beauty

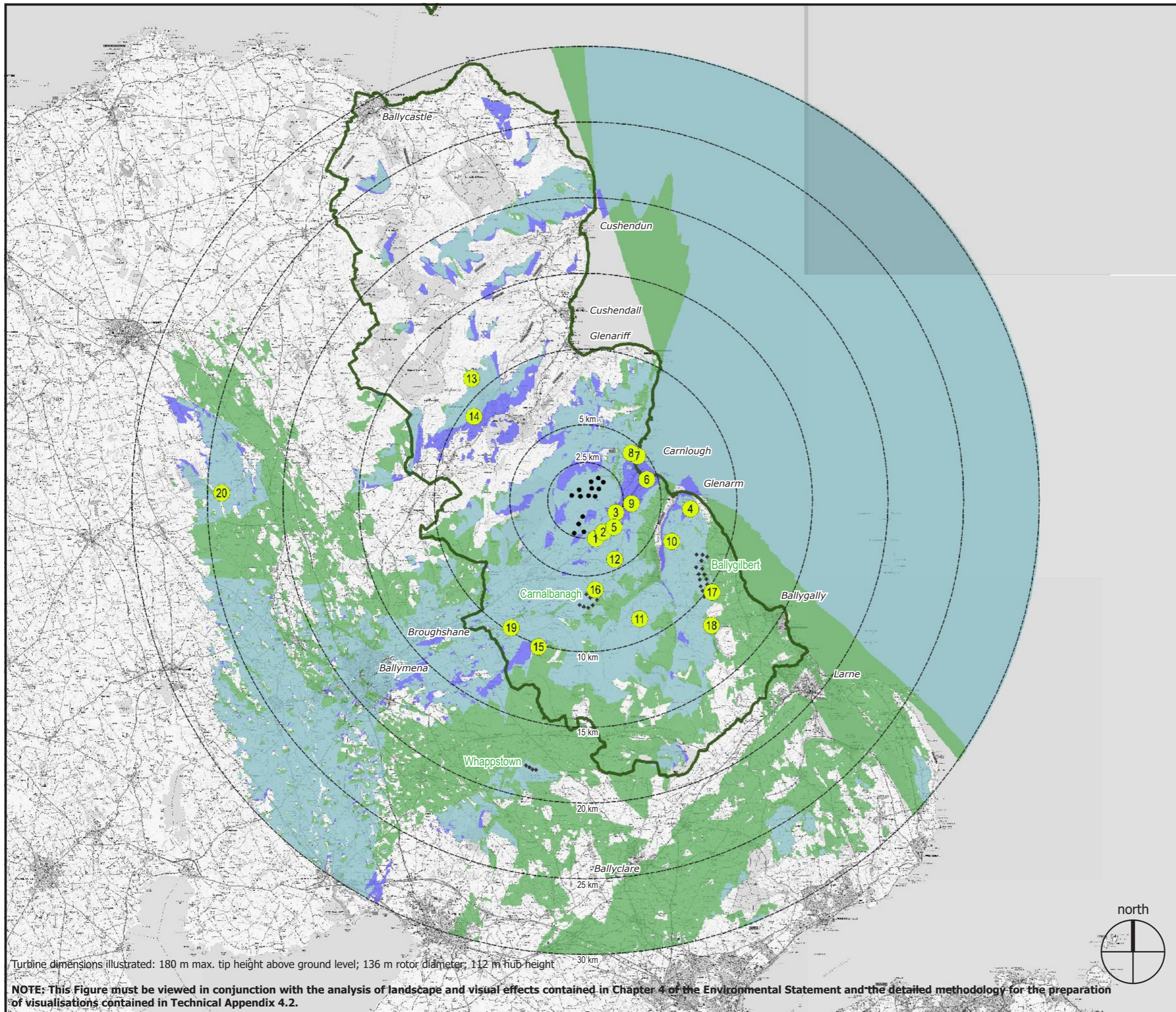
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**LANDSCAPE AND VISUAL  
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TURBINE LAYOUT NO: <b>pNIRuns024</b>	0	5	10km
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Turbine dimensions illustrated: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height

**NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2.**



**UNSHINAGH WIND FARM**

**FIGURES 4.11 - 4.30**

**VIEWPOINT FIGURES**

**PURPOSE AND UNDERSTANDING OF THESE FIGURES:**

These Figures are intended to accompany the detailed written descriptions of the final 20 Viewpoints that have been included to represent views of the Development from various parts of the Study Area. They include computer-generated wirelines and photomontages for Viewpoints 1 - 19 and a wireline-only visualisation of Viewpoint 20 because it is located in excess of 20 km from the Development and the turbines are therefore unlikely to be easily discernible. The purpose of these figures is to help the assessor establish visual effects by providing a 'snapshot' of what the Development would look like from various parts of the Study Area. They must always be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the LVIA that is described in Technical Appendix 4.2 as well as a visit to all of the viewpoints in appropriate weather conditions. Detailed descriptions of the final Viewpoints are an integral part of the Visual Impact Assessment section of Chapter 4, LVIA. Viewpoint locations are shown on Figure 4.3 and all other map-based Figures for ease of reference. Wirelines are not intended to be visually representative images but they are generally accepted as an illustrative digital imaging tool. They provide a good indication of the location of the Development within the landscape and its relationship with other wind farms and single turbines in the Study Area. If these limitations are recognised, visualisations can be accepted as adequate representations for the purpose of the LVIA. The methodology for producing these visualisations is described in detail in Technical Appendix 4.2 and conforms with relevant parts of the best practice guidance documents listed in Technical Appendix 4.1.

On the wireline diagrams the turbine blades are displayed at an angle of 0°, i.e. the uppermost blade is always shown pointing directly upwards, in order to demonstrate the highest possible level of visibility. Random blade angles are shown on the photomontages because this is more realistic. All cumulative wind farms, including any which may appear within the view but which are located beyond the field of view that it is possible to illustrate on A3-sized figures, are also labelled on the wireline. However, only existing wind farms and single turbines are shown on the photomontages (i.e. those that are already present within the photographs). This is in accordance with best practice guidance.

In many scenarios wind farms are visible as elements of wide angle views which can only be appreciated if viewers turn their heads from side to side or move through the landscape. Wirelines and photomontages show the turbines in accurate proportion to other visual elements. However, the overall scale of the view is reduced by the practical need to illustrate the view on a single sheet of paper that allows as many people as possible to have fair and easy access to the published Environmental Statement. Features that are of note in wider views, but which are beyond the angle that can be illustrated in the viewpoint figures, such as other wind farms, are included in the detailed written descriptions of viewpoints in the LVIA report and considered in the assessment of effects.

Visualisations are prepared in accordance with the SNH best practice guidance as far as practical and SNH's best practice guidance recommends that the following information on the limitations of visualisations is included in all LVIA methodologies:

"Visualisations of wind farms have a number of limitations which you should be aware of when using them to form a judgement on a wind farm proposal. These include:

- A visualisation can never show exactly what the wind farm will look like in reality due to factors such as: different lighting, weather and seasonal conditions which vary through time and the resolution of the image;
- The images provided give a reasonable impression of the scale of the turbines and the distance to the turbines, but can never be 100% accurate;
- A static image cannot convey turbine movement, or flicker or reflection from the sun on the turbine blades as they move;
- The viewpoints illustrated are representative of views in the area, but cannot represent visibility at all locations;
- To form the best impression of the impacts of the wind farm proposal these images are best viewed at the viewpoint location shown;
- The images must be printed at the right size to be viewed properly (The visualisations in this LVIA should be printed at A3); You should hold the images flat at a comfortable arm's length. If viewing these images on a wall or board at an exhibition, you should stand at arm's length from the image presented to gain the best impression.
- It is preferable to view printed images rather than view images on screen. If you do view images on screen you should do so using a normal PC screen with the image enlarged to the full screen height to give a realistic impression. Do not use a tablet or other device with a smaller screen to view the visualisations described in this guidance."

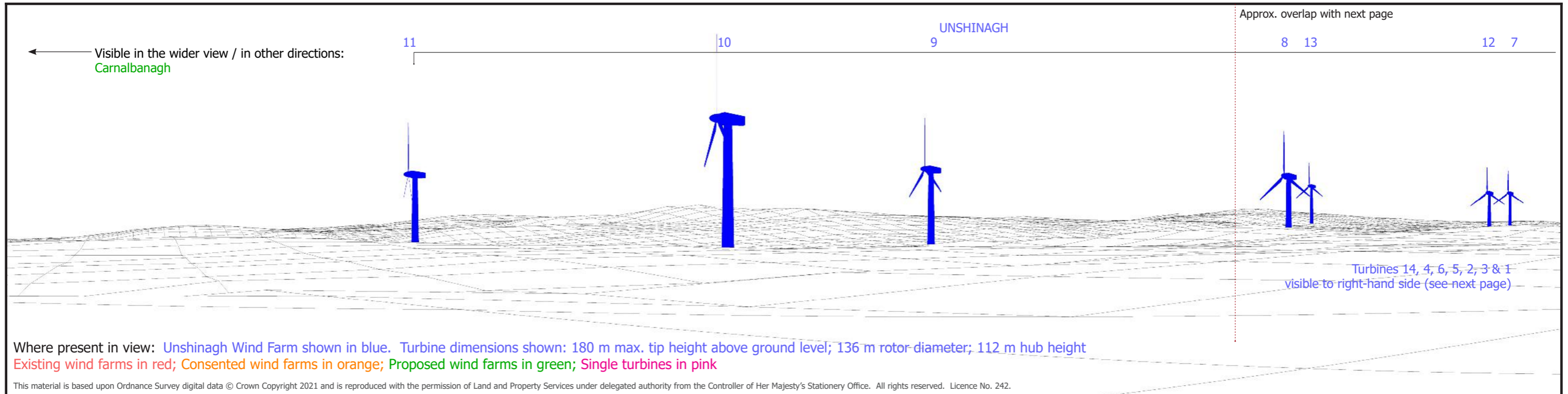
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**LANDSCAPE AND VISUAL  
IMPACT ASSESSMENT**

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TURBINE LAYOUT NO:  
pNIRuns024

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<b>Shanti McAllister</b> landscape planning and design ltd.				<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.11 (page 1/3)</b>  <b>VIEWPOINT 1</b> <b>Middle Section of Slane Road (left-hand side)</b> Wireline and Photomontage		Easting: 325960 Northing: 412532 Elevation A.O.D: 213 m Bearing: 347.70 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 0.88 km to T10					
<b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b>				<b>NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</b>							
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TURBINE LAYOUT NO: pNIRuns024											



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8 13

12 7

UNSHINAGH

14

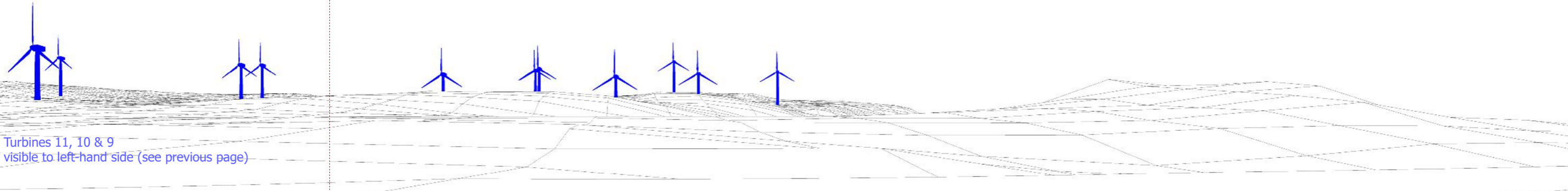
4,6

5

2 3

1

Visible in the wider view / in other directions: →  
Single Turbines 3 & 4; Ballygilbert



Turbines 11, 10 & 9  
visible to left-hand side (see previous page)

Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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SMc / JMc	Dec. 2021	A3	B

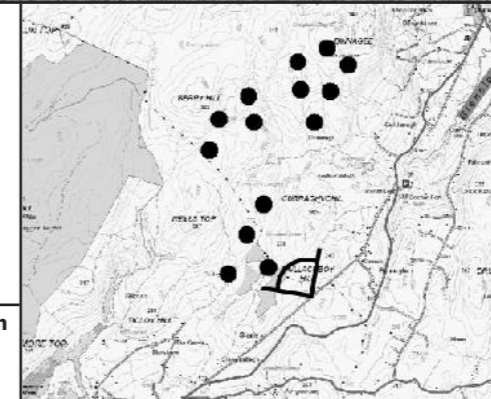
TURBINE LAYOUT NO:  
pNIRuns024

**UNSHINAGH WIND FARM**

**FIGURE 4.11 (page 2/3)**

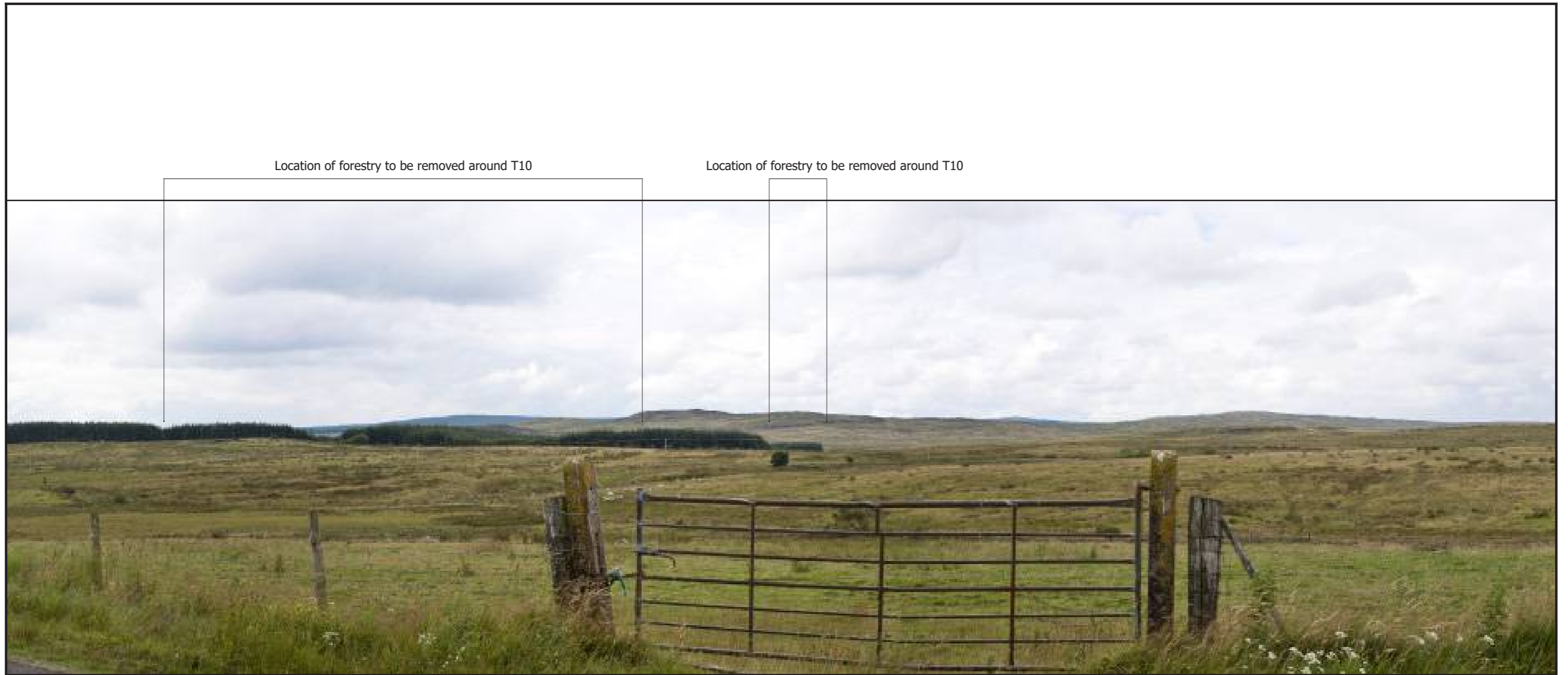
**VIEWPOINT 1  
Middle Section of Slane Road (right-hand side)  
Wireline and Photomontage**

Easting:	325960
Northing:	412532
Elevation A.O.D	213 m
Bearing:	347.70 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	0.88 km to T10



**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

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Location of forestry to be removed around T10

Location of forestry to be removed around T10

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pNIRuns024

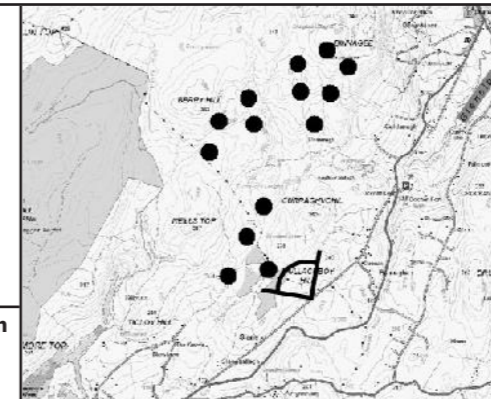
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**UNSHINAGH WIND FARM**

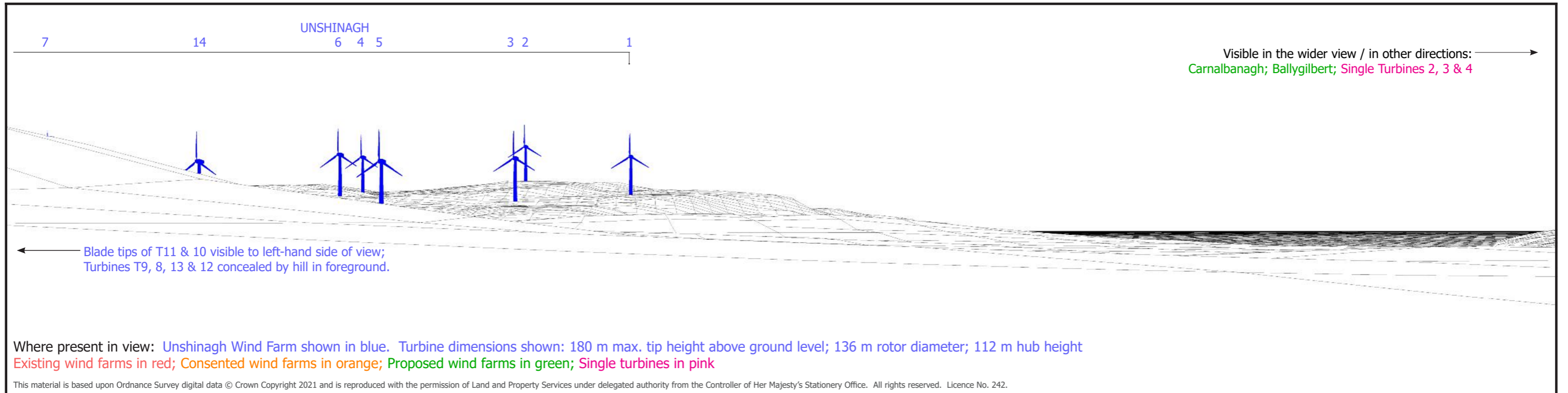
**FIGURE 4.11 (page 3/3)**

**VIEWPOINT 1**  
**Middle Section of Slane Road**  
Baseline Photograph

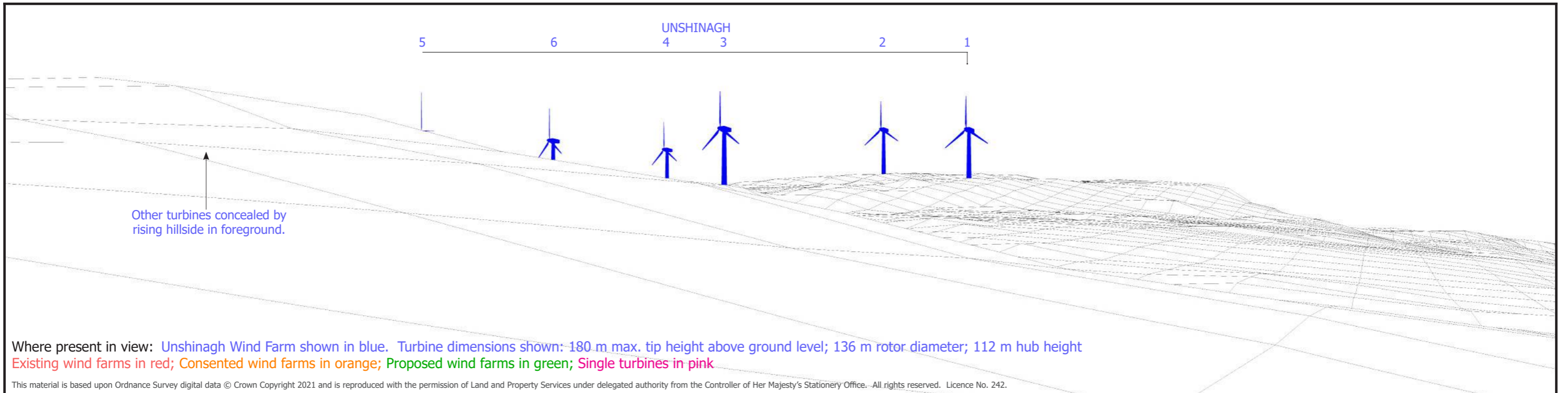
Easting: 325960  
 Northing: 412532  
 Elevation A.O.D: 213 m  
 Bearing: 347.70 °  
 Approx. Included Angle: 80 °  
 Approx. distance to nearest turbine: 0.88 km to T10



**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



<b>Shanti McAllister</b> landscape planning and design ltd.				<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.12</b>  <b>VIEWPOINT 2</b> <b>North Eastern section of Slane Road</b> Wireline and Photomontage		Easting: 326476 Northing: 412961 Elevation A.O.D: 208 m Bearing: 330.78 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 1.28 km to T10		
<b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b>								
DRAWN / APPROVED: SMc / JMc	DATE: Dec. 2021	PRINT SIZE: A3	REVISION: B	<b>NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</b>				
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TURBINE LAYOUT NO:  
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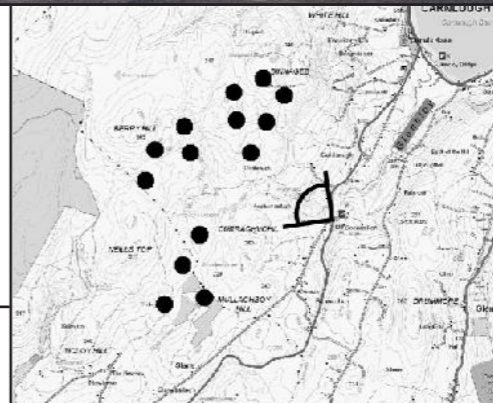
**UNSHINAGH WIND FARM**

**FIGURE 4.13**

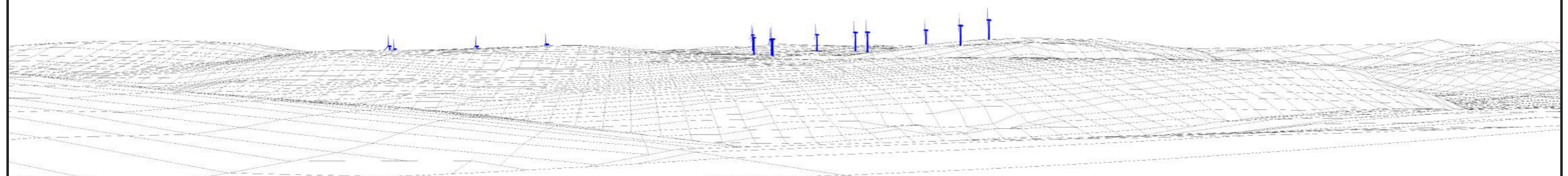
**VIEWPOINT 3**  
**Doonan Leap Carpark, A42, Glencloy**  
Wireline and Photomontage

**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Eastings:	327309
Northing:	414256
Elevation A.O.D	134 m
Bearing:	291.76 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	1.72 km to T5



10,11      9      8      UNSHINAGH      13,12,14,5      7      6      3      4      1      2



Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
 Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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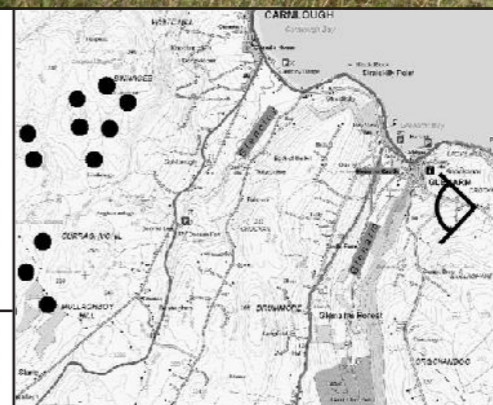
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**TURBINE LAYOUT NO:**  
 pNIRuns024

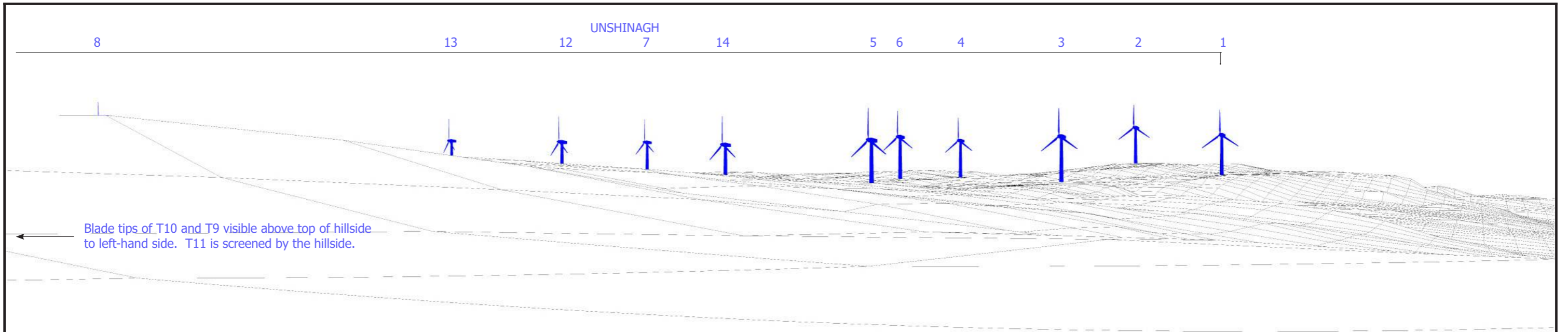
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**UNSHINAGH WIND FARM**  
**FIGURE 4.14**  
**VIEWPOINT 4**  
**Dickeystown Road, Glenarm**  
 Wireline and Photomontage

Eastings: 332246  
 Northings: 414491  
 Elevation A.O.D: 148 m  
 Bearing: 274.78 °  
 Approx. Included Angle: 80 °  
 Approx. distance to nearest turbine: 6.02 km to T1



**NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.**

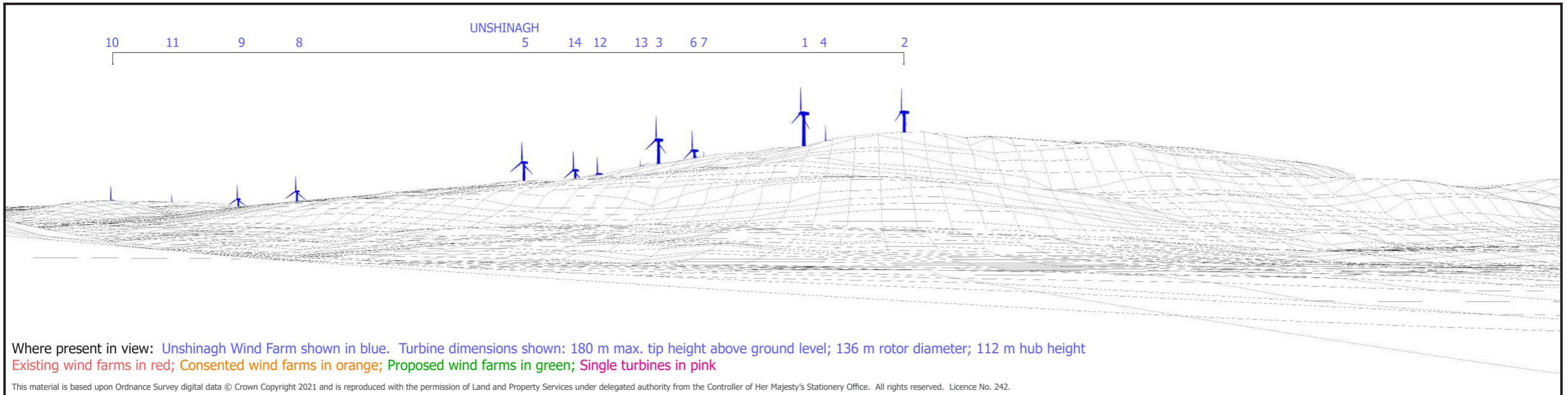


Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
 Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

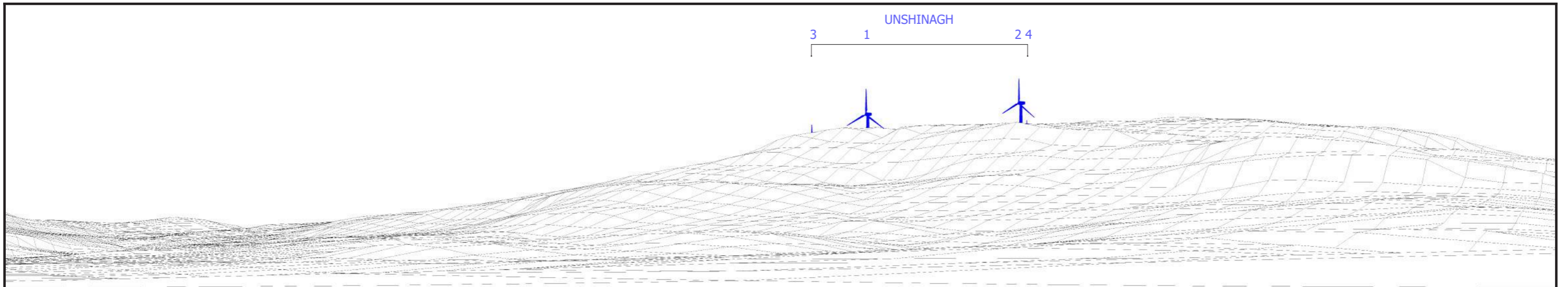
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<p><b>Shanti McAllister</b> landscape planning and design ltd.</p>	<p><b>UNSHINAGH WIND FARM</b></p> <p><b>FIGURE 4.15</b></p> <p><b>VIEWPOINT 5</b></p> <p><b>Approach into Carnlough on A42</b></p> <p>Wireline and Photomontage</p>		<p>Easting: 327190          Northing: 413285          Elevation A.O.D: 173 m          Bearing: 315.255 °          Approx. Included Angle: 80 °          Approx. distance to nearest turbine: 2.01 km to T10</p>						
<p><b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b></p> <table border="1"> <tr> <td>DRAWN / APPROVED:</td> <td>DATE:</td> <td>PRINT SIZE:</td> <td>REVISION:</td> </tr> <tr> <td>SMc / JMc</td> <td>Dec. 2021</td> <td>A3</td> <td>B</td> </tr> </table> <p>TURBINE LAYOUT NO: pNIRuns024</p> <p><small>THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION</small></p>			DRAWN / APPROVED:	DATE:		PRINT SIZE:	REVISION:	SMc / JMc	Dec. 2021
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SMc / JMc	Dec. 2021	A3	B						



<b>Shanti McAllister</b> landscape planning and design ltd.				<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.16</b>  <b>VIEWPOINT 6</b> <b>Straidkilly Road, Carnlough</b> Wireline and Photomontage		Easting: 329355 Northing: 416434 Elevation A.O.D: 6 m Bearing: 251.19 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 2.87 km to T1		
<b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b>								
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Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
 Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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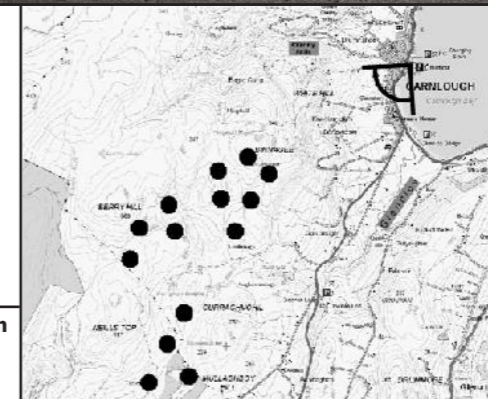
TURBINE LAYOUT NO:  
 pNIRuns024

**UNSHINAGH WIND FARM**

**FIGURE 4.17**

**VIEWPOINT 7  
 Carnlough Harbour Park  
 Wireline and Photomontage**

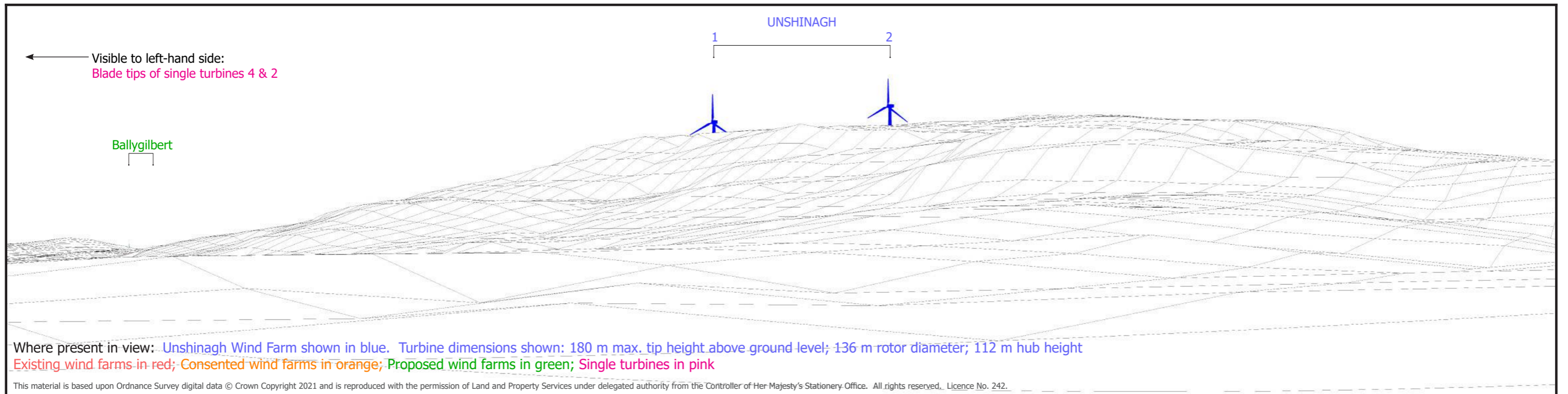
Easting:	328740
Northing:	417989
Elevation A.O.D	9 m
Bearing:	228.99 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	2.83 km to T1



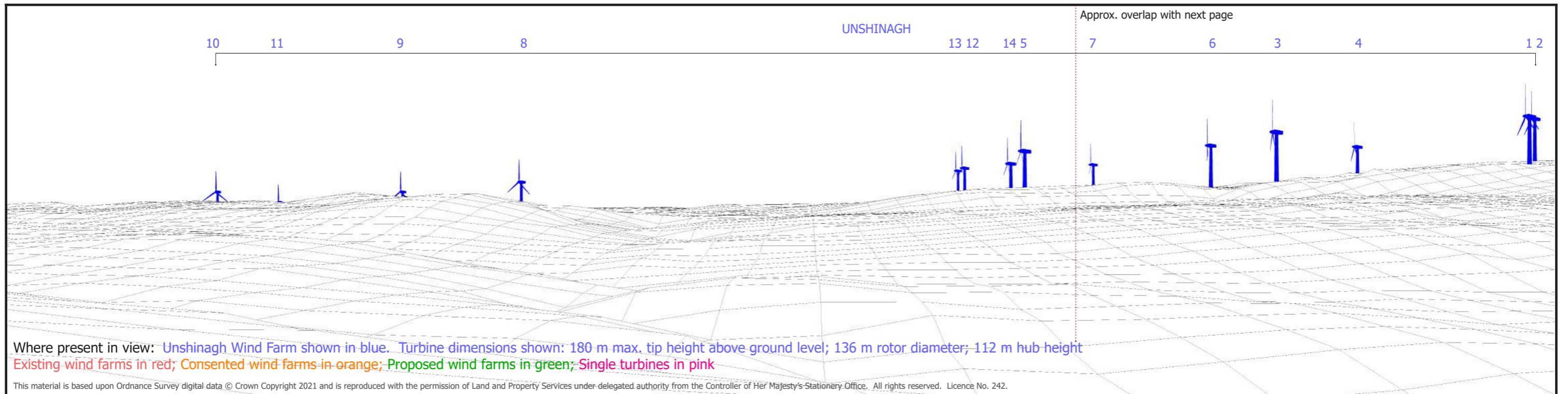
**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

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<p><b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b></p> <table border="1"> <tr> <td>DRAWN / APPROVED: SMc / JMc</td> <td>DATE: Dec. 2021</td> <td>PRINT SIZE: A3</td> <td>REVISION: B</td> </tr> </table>		DRAWN / APPROVED: SMc / JMc	DATE: Dec. 2021	PRINT SIZE: A3	REVISION: B	<p><b>NOTE:</b> This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</p>			<p>THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION</p>	
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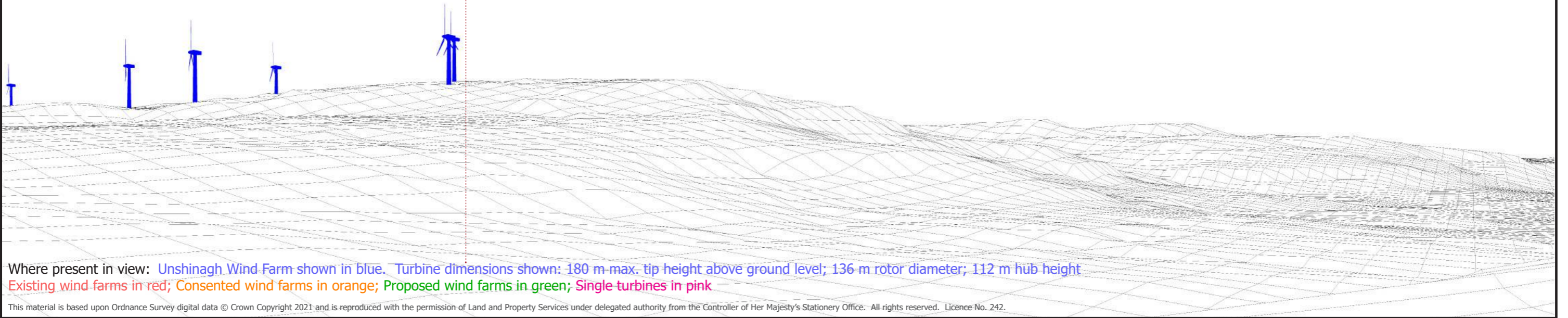


<p><b>Shanti McAllister</b> landscape planning and design Ltd.</p>	<p><b>UNSHINAGH WIND FARM</b></p> <p><b>FIGURE 4.19 (page 1/2)</b></p> <p><b>VIEWPOINT 9</b></p> <p><b>Ballyvaddy Road (left-hand side)</b></p> <p>Wireline and Photomontage</p>	<p>Easting: 328347          Northing: 414844          Elevation A.O.D: 108 m          Bearing: 274.73 °          Approx. Included Angle: 80 °          Approx. distance to nearest turbine: 2.33 km to T1</p>							
<p><b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b></p>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DRAWN / APPROVED:</td> <td style="font-size: 8px;">DATE:</td> <td style="font-size: 8px;">PRINT SIZE:</td> <td style="font-size: 8px;">REVISION:</td> </tr> <tr> <td style="font-size: 8px;">SMc / JMc</td> <td style="font-size: 8px;">Dec. 2021</td> <td style="font-size: 8px;">A3</td> <td style="font-size: 8px;">C</td> </tr> </table>	DRAWN / APPROVED:				DATE:	PRINT SIZE:	REVISION:	SMc / JMc	Dec. 2021
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<p><small>NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</small></p>									

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UNSHINAGH

7 6 3 4 1 2



Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
 Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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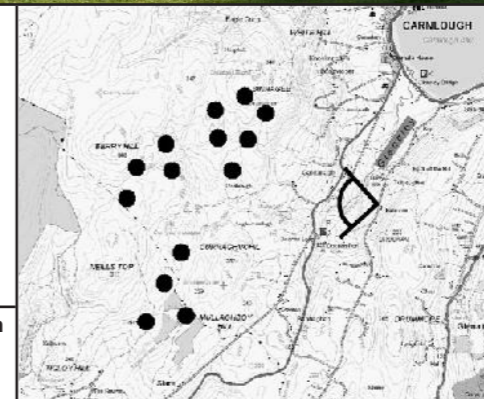
TURBINE LAYOUT NO:  
 pNIRuns024

**UNSHINAGH WIND FARM**

**FIGURE 4.19 (page 2/2)**

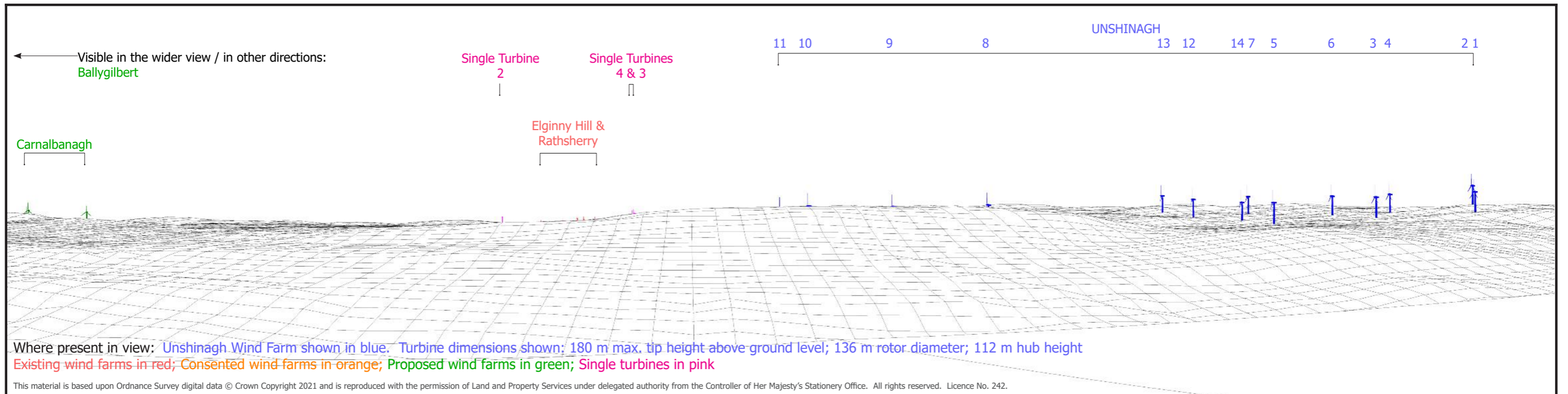
**VIEWPOINT 9**  
**Ballyvaddy Road (right-hand side)**  
 Wireline and Photomontage

Easting: 328347  
 Northing: 414844  
 Elevation A.O.D: 108 m  
 Bearing: 274.73 °  
 Approx. Included Angle: 80 °  
 Approx. distance to nearest turbine: 2.33 km to T1



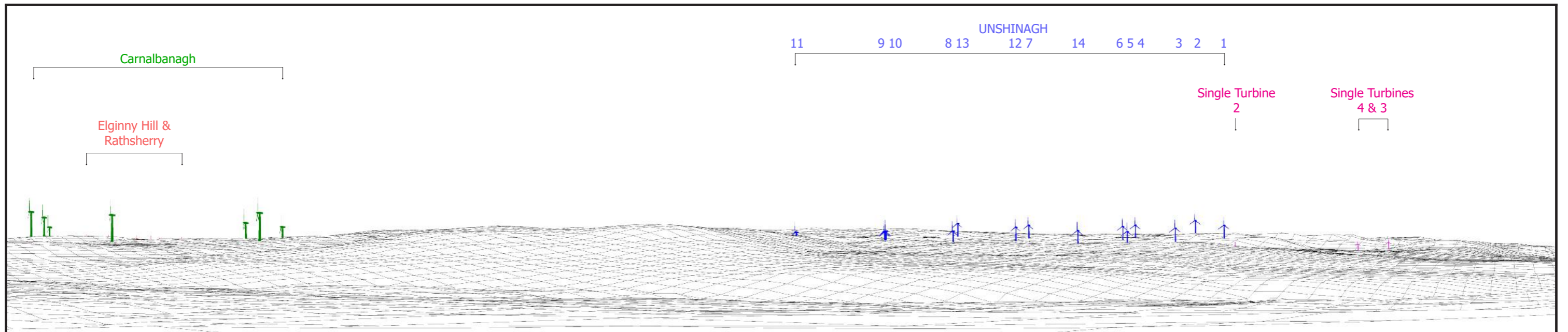
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<p><b>Shanti McAllister</b> landscape planning and design ltd.</p>	<p align="center"><b>UNSHINAGH WIND FARM</b></p> <p align="center"><b>FIGURE 4.20</b></p> <p align="center"><b>VIEWPOINT 10</b></p> <p align="center"><b>Ulster Way at Crockadoo, Feystown Road</b></p> <p align="center">Wireline and Photomontage</p>	<p>Easting: 331001 Northing: 412343 Elevation A.O.D: 220 m Bearing: 296.12 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 5.84 km to T10</p>		
<p><b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b></p> <table border="1"> <tr> <td>DRAWN / APPROVED: SMc / JMc</td> <td>DATE: Dec. 2021</td> <td>PRINT SIZE: A3</td> <td>REVISION: B</td> </tr> </table> <p>TURBINE LAYOUT NO: pNIRuns024</p> <p><small>THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION</small></p>				
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Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136-m rotor diameter; 112 m hub height  
 Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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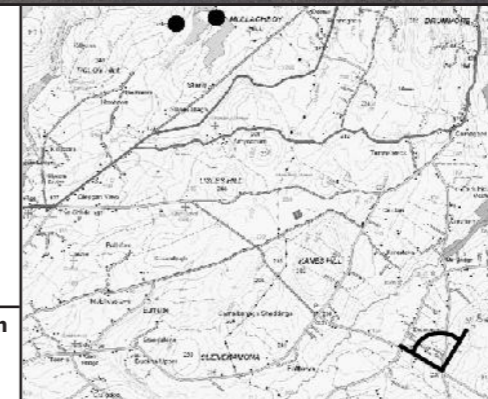
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UNSHINAGH WIND FARM

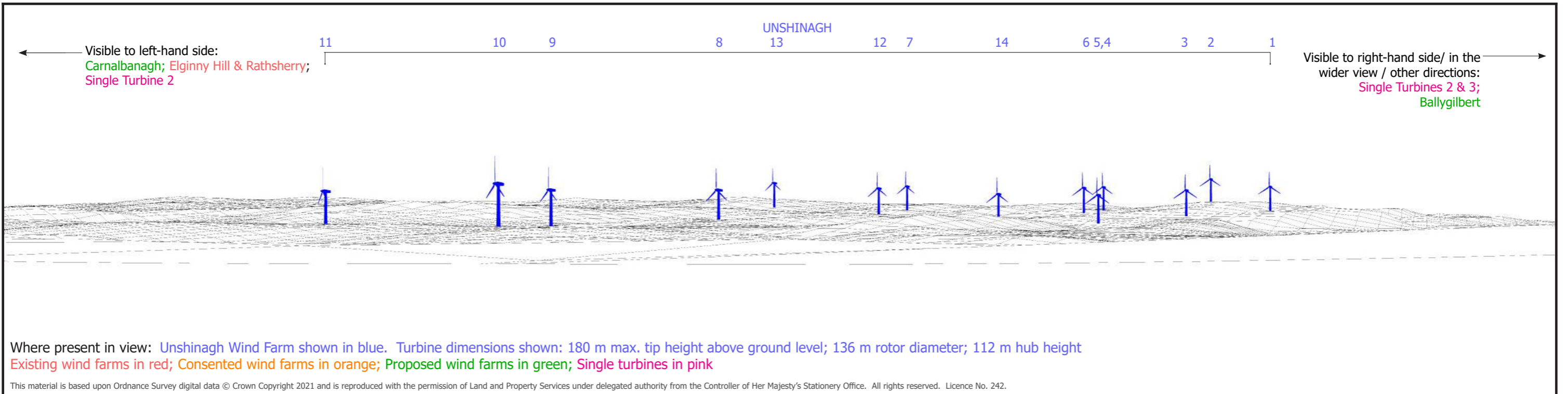
FIGURE 4.21

VIEWPOINT 11  
 Glenview Road, Glenarm  
 Wireline and Photomontage

Easting:	328879
Northing:	407223
Elevation A.O.D	235 m
Bearing:	336.15 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	6.83 km to T10



NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



<b>Shanti McAllister</b> landscape planning and design ltd.				<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.22 (page 1/2)</b>  <b>VIEWPOINT 12</b> <b>Munie Road</b> Wireline and Photomontage		Easting: 327241 Northing: 411163 Elevation A.O.D: 211 m Bearing: 334.90 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 2.73 km to T10					
<b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b>											
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TURBINE LAYOUT NO: pNIRuns024											
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Location of forestry to be removed around T10



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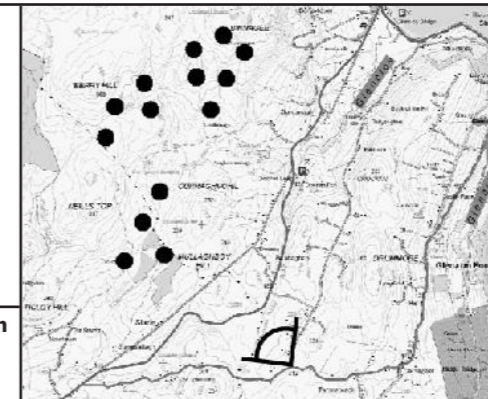
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**UNSHINAGH WIND FARM**

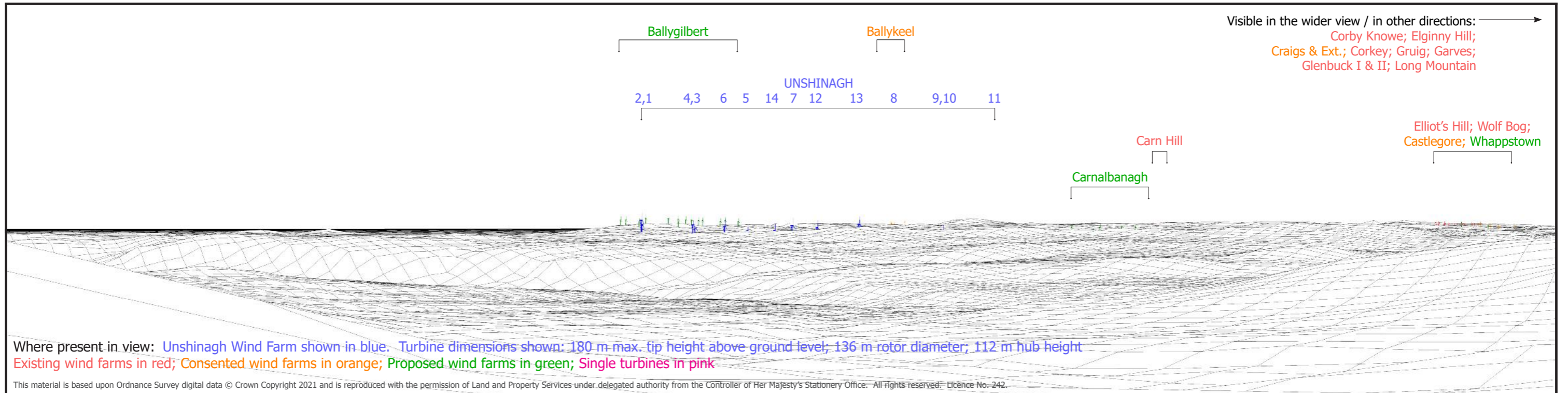
**FIGURE 4.22 (page 2/2)**

**VIEWPOINT 12**  
**Munie Road**  
Baseline Photograph

Easting: 327241  
Northing: 411163  
Elevation A.O.D: 211 m  
Bearing: 334.90 °  
Approx. Included Angle: 80 °  
Approx. distance to nearest turbine: 2.73 km to T10



**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

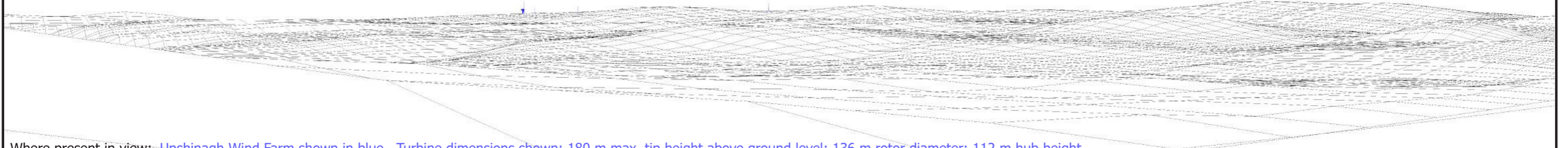


<b>Shanti McAllister</b> landscape planning and design ltd.				<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.23</b>  <b>VIEWPOINT 13</b> <b>Moyle Way near Trostan Summit</b> Wireline and Photomontage		Easting: 317771 Northing: 423093 Elevation A.O.D: 491 m Bearing: 136.20 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 10.30 km to T13		
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UNSHINAGH  
2 1 4 6 7 13

Visible in the wider view / in other directions: Rathsherry; Elginny Hill



Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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Single turbine visible in foreground but not illustrated in wireline because it is over 5 km from the Development

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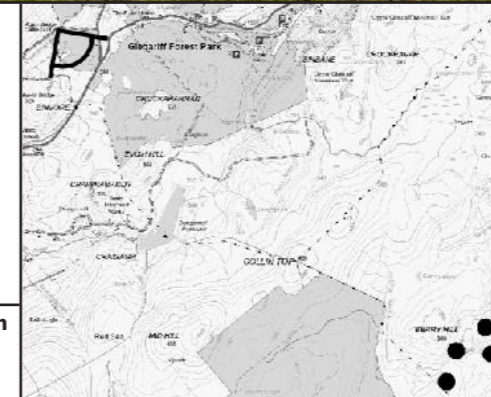
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**UNSHINAGH WIND FARM**

**FIGURE 4.24**

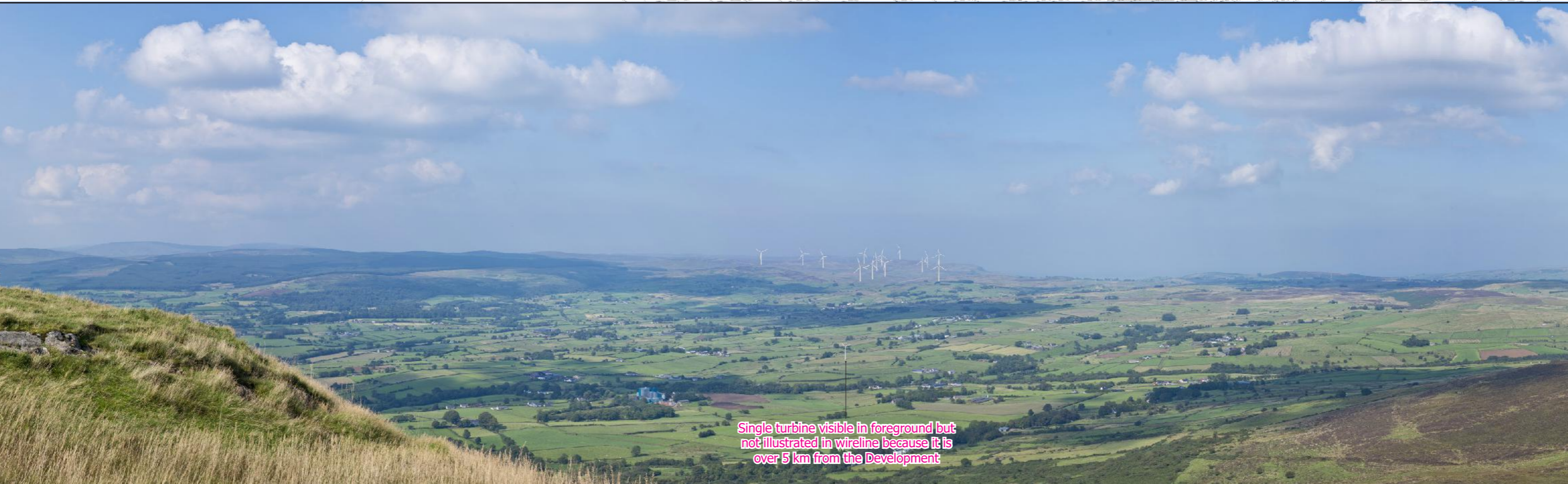
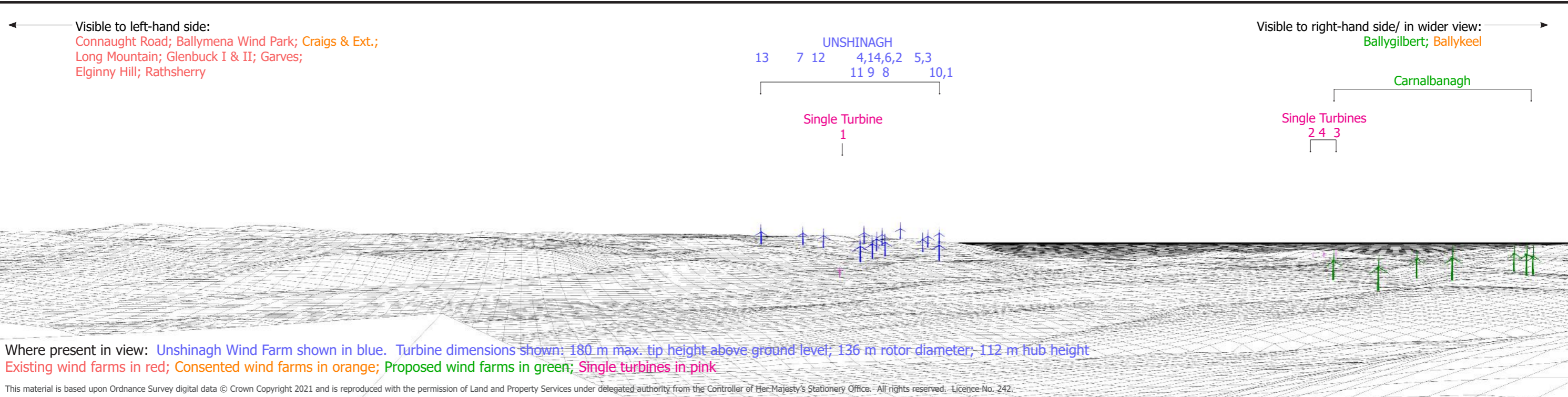
**VIEWPOINT 14**  
**Skerry East Road, Dungonnell Way**  
Wireline and Photomontage

Easting: 317933  
Northing: 420591  
Elevation A.O.D: 335 m  
Bearing: 126.37 °  
Approx. Included Angle: 80 °  
Approx. distance to nearest turbine: 8.24 km to T13



**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

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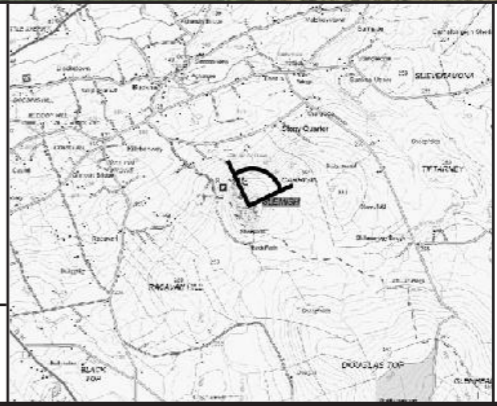
**UNSHINAGH WIND FARM**

**FIGURE 4.25 (page 1/2)**

**VIEWPOINT 15**  
**Slemish Summit**  
Wireline and Photomontage

**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Easting:	322201
Northing:	405386
Elevation A.O.D	439 m
Bearing:	17.84 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	7.86 km to T11



Location of forestry to be removed near T8  
 Location of forestry to be removed around T10



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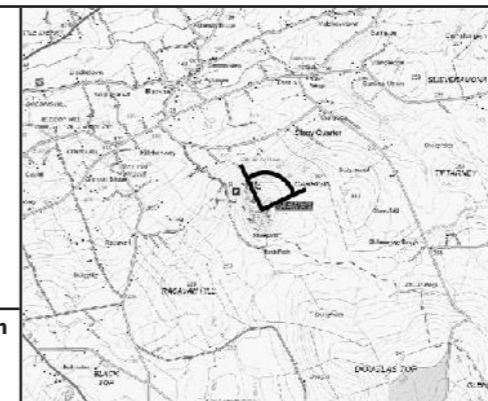
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**UNSHINAGH WIND FARM**

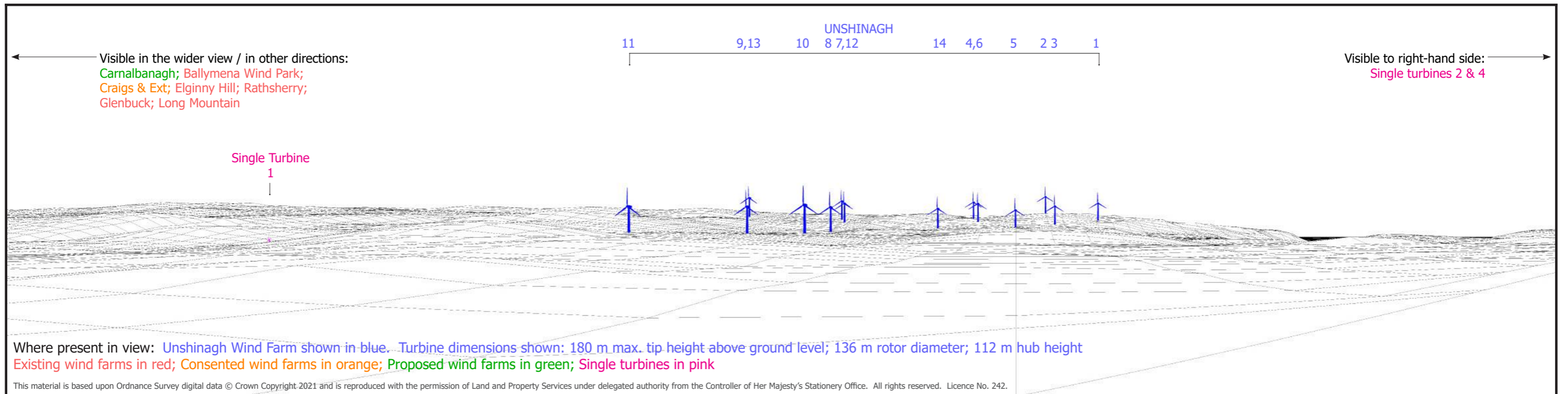
**FIGURE 4.25 (page 2/2)**

**VIEWPOINT 15  
 Slemish Summit  
 Baseline Photograph**

Easting: 322201  
 Northing: 405386  
 Elevation A.O.D: 439 m  
 Bearing: 17.84 °  
 Approx. Included Angle: 80 °  
 Approx. distance to nearest turbine: 7.86 km to T11



**NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.**



<b>Shanti McAllister</b> landscape planning and design ltd.	<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.26 (page 1/2)</b>  <b>VIEWPOINT 16</b> <b>Carnalbanagh</b> Wireline and Photomontage	Easting: 325950 Northing: 409158 Elevation A.O.D: 245 m Bearing: 354.73 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 3.89 km to T10										
<b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b>		<small>NOTE: This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</small>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DRAWN / APPROVED:</td> <td style="font-size: 8px;">DATE:</td> <td style="font-size: 8px;">PRINT SIZE:</td> <td style="font-size: 8px;">REVISION:</td> </tr> <tr> <td style="font-size: 8px;">SMc / JMc</td> <td style="font-size: 8px;">Dec. 2021</td> <td style="font-size: 8px;">A3</td> <td style="font-size: 8px;">B</td> </tr> </table>	DRAWN / APPROVED:	DATE:	PRINT SIZE:	REVISION:	SMc / JMc	Dec. 2021	A3	B	<small>THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION</small>			
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SMc / JMc	Dec. 2021	A3	B									
<small>TURBINE LAYOUT NO: pNIRuns024</small>												

Locations of forestry  
to be removed  
around T10 and T8



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**LANDSCAPE AND VISUAL  
IMPACT ASSESSMENT**

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TURBINE LAYOUT NO:  
pNIRuns024

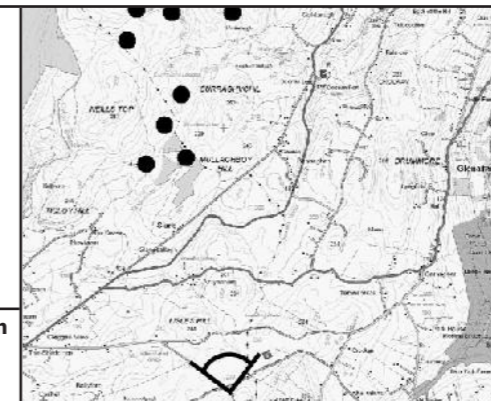
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**UNSHINAGH WIND FARM**

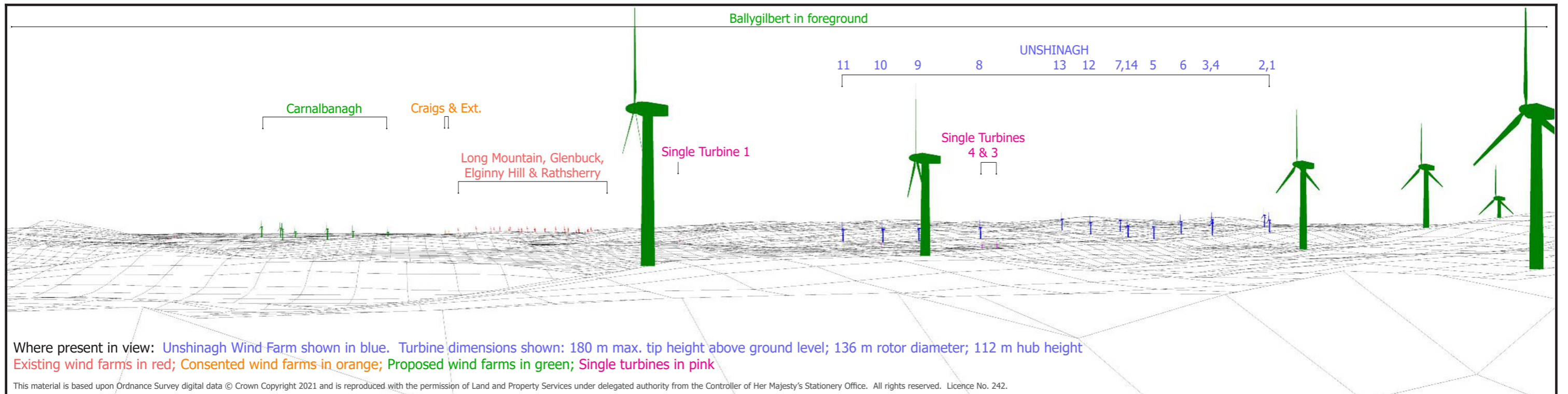
**FIGURE 4.26 (page 2/2)**

**VIEWPOINT 16**  
**Carnalbanagh**  
Baseline Photograph

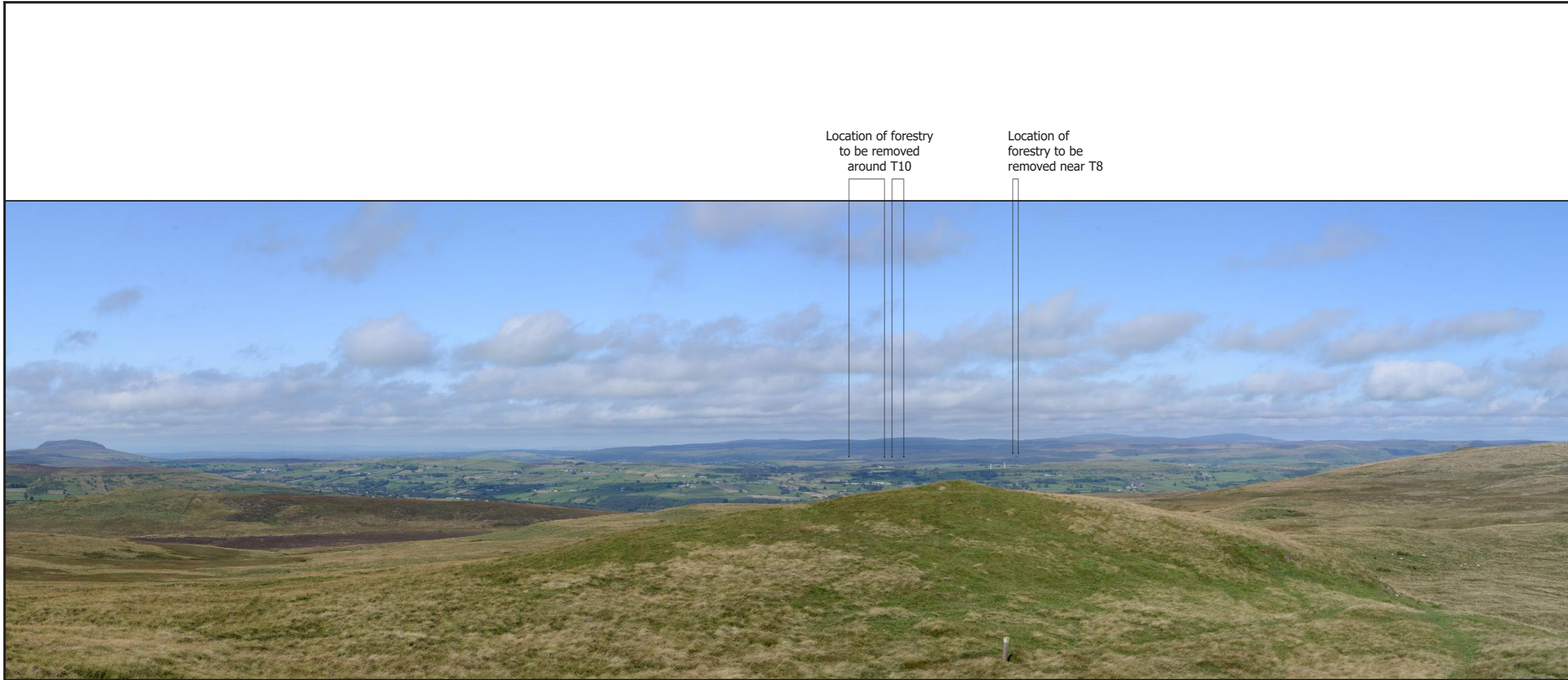
Easting: 325950  
Northing: 409158  
Elevation A.O.D: 245 m  
Bearing: 354.73 °  
Approx. Included Angle: 80 °  
Approx. distance to nearest turbine: 3.89 km to T10



**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



<p><b>Shanti McAllister</b> landscape planning and design ltd.</p>	<p><b>UNSHINAGH WIND FARM</b></p> <p><b>FIGURE 4.27 (page 1/2)</b></p> <p><b>VIEWPOINT 17</b> <b>Ulster Way at Scawt Hill</b> Wireline and Photomontage</p>	<p>Easting: 333674          Northing: 408991          Elevation A.O.D: 380 m          Bearing: 305.92 °          Approx. Included Angle: 80 °          Approx. distance to nearest turbine: 9.37 km to T10</p>							
<p><b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b></p> <table border="1"> <tr> <td>DRAWN / APPROVED:</td> <td>DATE:</td> <td>PRINT SIZE:</td> <td>REVISION:</td> </tr> <tr> <td>SMc / JMc</td> <td>Dec. 2021</td> <td>A3</td> <td>B</td> </tr> </table> <p>TURBINE LAYOUT NO: pNIRuns024</p> <p><small>THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION</small></p>		DRAWN / APPROVED:	DATE:	PRINT SIZE:	REVISION:	SMc / JMc	Dec. 2021	A3	B
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SMc / JMc	Dec. 2021	A3	B						



Location of forestry  
to be removed  
around T10

Location of  
forestry to be  
removed near T8

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and design ltd.

**LANDSCAPE AND VISUAL  
IMPACT ASSESSMENT**

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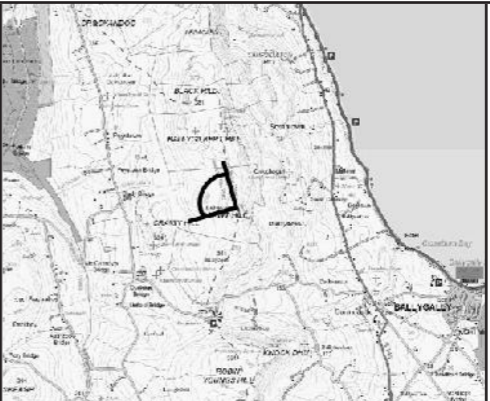
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**UNSHINAGH WIND FARM**

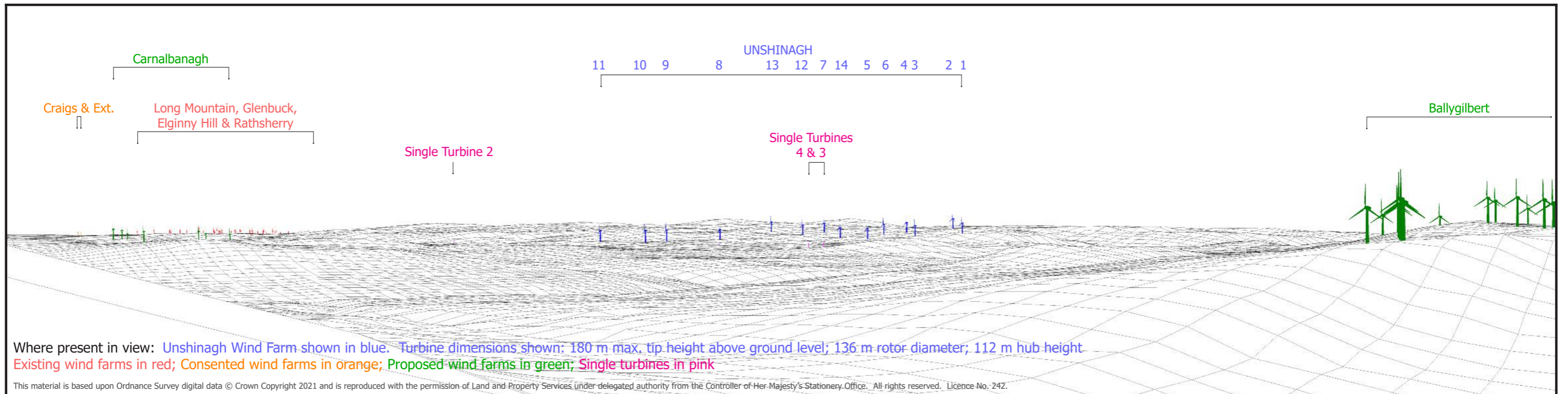
**FIGURE 4.27 (page 2/2)**

**VIEWPOINT 17  
Ulster Way at Scawt Hill  
Baseline Photograph**

Easting:	333674
Northing:	408991
Elevation A.O.D	380 m
Bearing:	305.92 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	9.37 km to T10

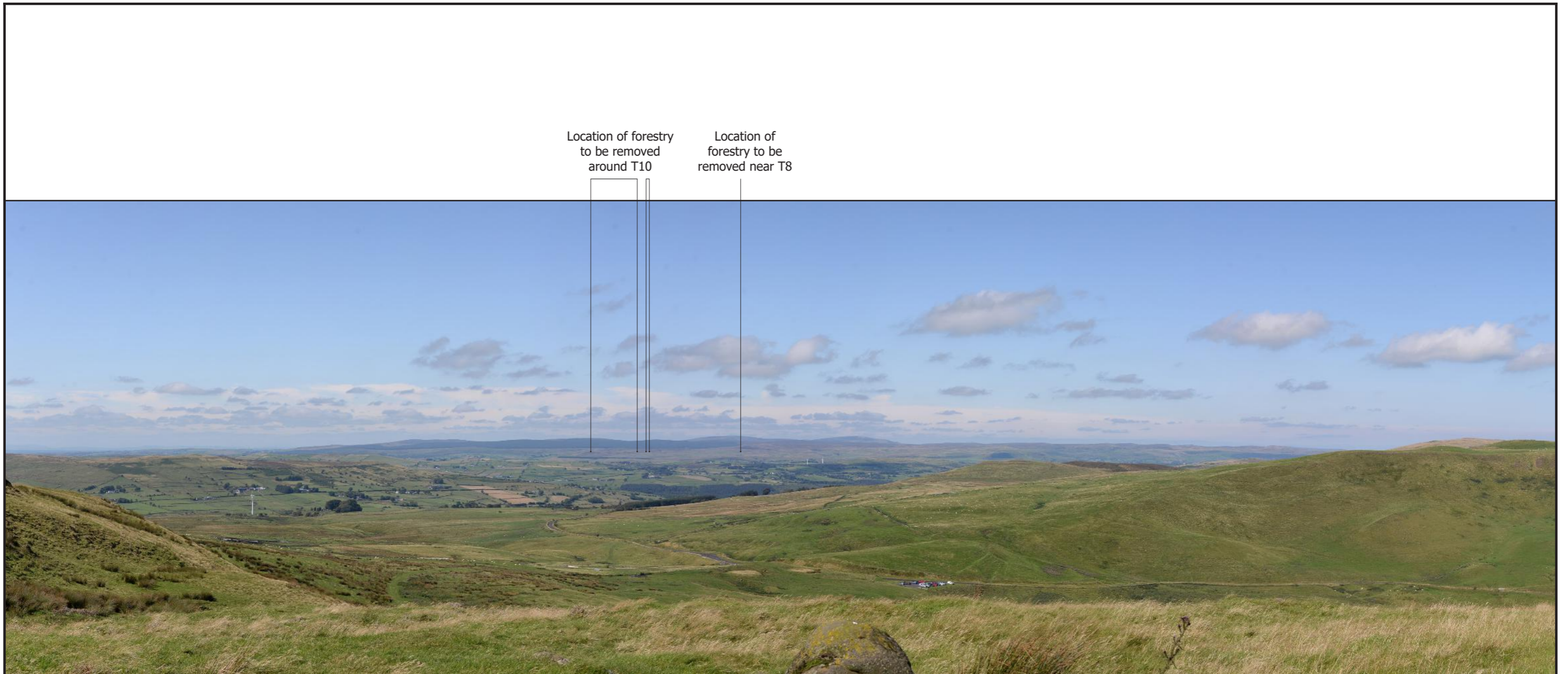


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<b>Shanti McAllister</b> landscape planning and design Ltd.				<b>UNSHINAGH WIND FARM</b>  <b>FIGURE 4.28 (page 1/2)</b>  <b>VIEWPOINT 18</b> <b>Ulsterway at Knockdhu</b> Wireline and Photomontage		Easting: 333629 Northing: 406800 Elevation A.O.D: 357 m Bearing: 315.21 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 10.45 km to T10			
<b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b>				<b>NOTE:</b> This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.					
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Location of forestry  
to be removed  
around T10

Location of  
forestry to be  
removed near T8

**Shanti McAllister**  
landscape planning  
and design ltd.

**LANDSCAPE AND VISUAL  
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TURBINE LAYOUT NO:  
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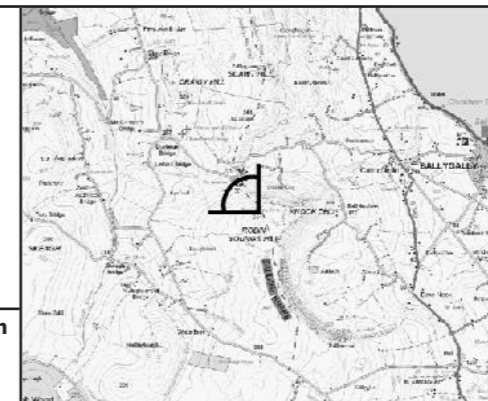
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**UNSHINAGH WIND FARM**

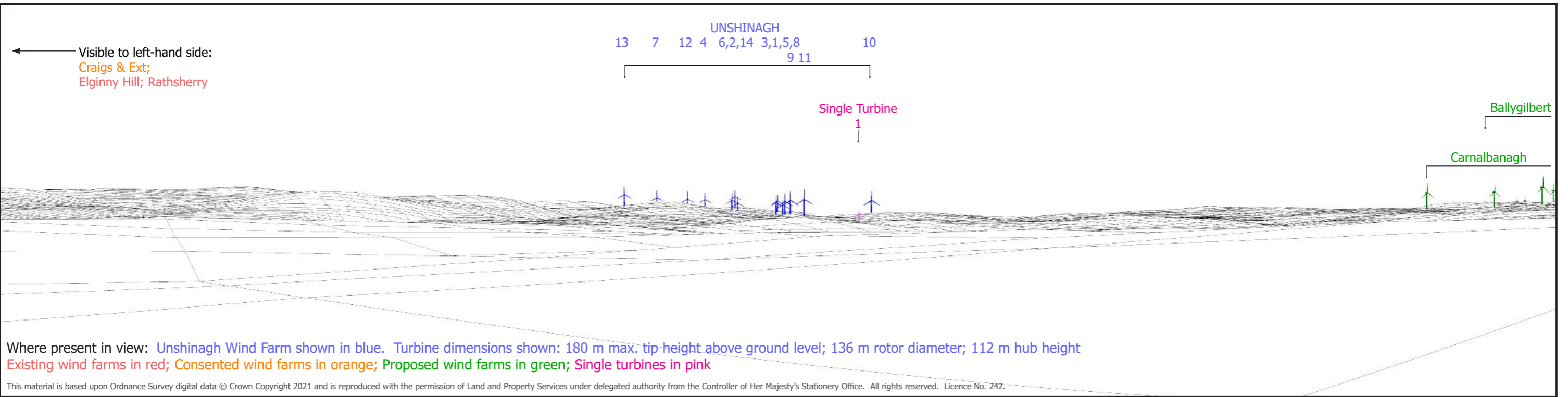
**FIGURE 4.28 (page 2/2)**

**VIEWPOINT 18**  
**Ulsterway at Knockdhu**  
Baseline Photograph

Easting: 333629  
 Northing: 406800  
 Elevation A.O.D: 357 m  
 Bearing: 315.21 °  
 Approx. Included Angle: 80 °  
 Approx. distance to nearest turbine: 10.45 km to T10



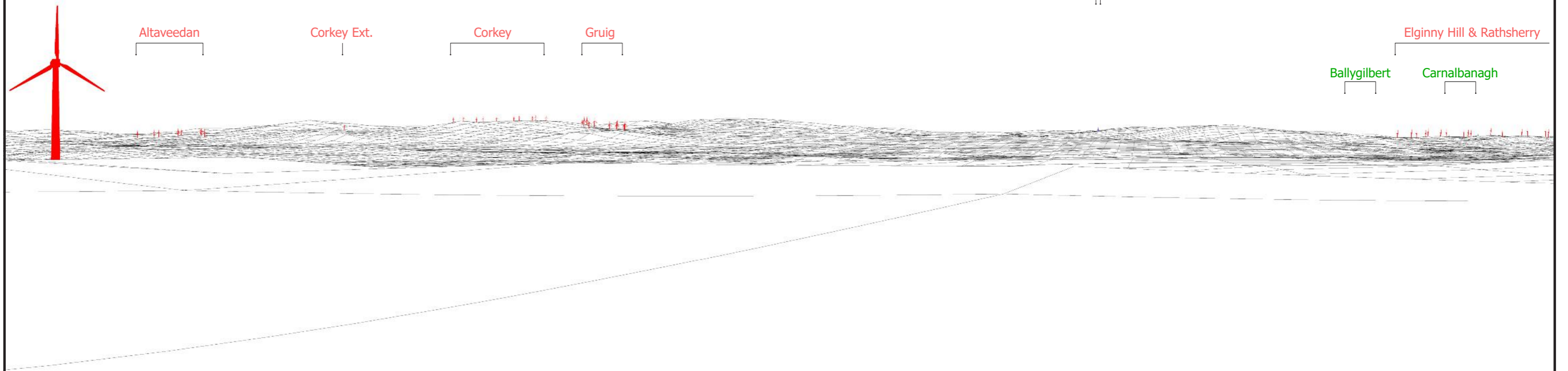
**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



<p><b>Shanti McAllister</b> landscape planning and design ltd.</p>	<p><b>UNSHINAGH WIND FARM</b></p>		<p>Easting: 320392 Northing: 406645 Elevation A.O.D: 133 m Bearing: 30.68 ° Approx. Included Angle: 80 ° Approx. distance to nearest turbine: 7.50 km to T11</p>				
<p><b>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</b></p>	<p><b>FIGURE 4.29</b></p> <p><b>VIEWPOINT 19</b></p> <p><b>Carnalbanagh Road near Broughshane</b></p> <p>Wireline and Photomontage</p>						
<table border="1"> <tr> <td>DRAWN / APPROVED: SMc / JMc</td> <td>DATE: Dec. 2021</td> <td>PRINT SIZE: A3</td> <td>REVISION: B</td> </tr> </table>	DRAWN / APPROVED: SMc / JMc	DATE: Dec. 2021	PRINT SIZE: A3	REVISION: B	<p><b>NOTE:</b> This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</p>		
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<p>TURBINE LAYOUT NO: pNIRuns024</p> <p>THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION</p>							

Visible below and to left-hand side:  
 Long Mountain; Garves;  
 Glenbuck I & II; Craigs & Ext.

Visible in the wider view / in other directions:  
 Ballymena Wind Park;  
 Elliot's Hill; Castlegore; Whappstown;  
 Corby Knowe



Where present in view: Unshinagh Wind Farm shown in blue. Turbine dimensions shown: 180 m max. tip height above ground level; 136 m rotor diameter; 112 m hub height  
 Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

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**LANDSCAPE AND VISUAL  
 IMPACT ASSESSMENT**

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pNIRuns024

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**UNSHINAGH WIND FARM**

**FIGURE 4.30**

**VIEWPOINT 20**  
**Glenbuck Road, Long Mountain Ridge**  
 Wireline

**NOTE:** This Figure must be viewed at a comfortable arms length and in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Eastings:	301252
Northing:	415544
Elevation A.O.D	180 m
Bearing:	90.08 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	23.13 km to T13

