FEHILY TIMONEY

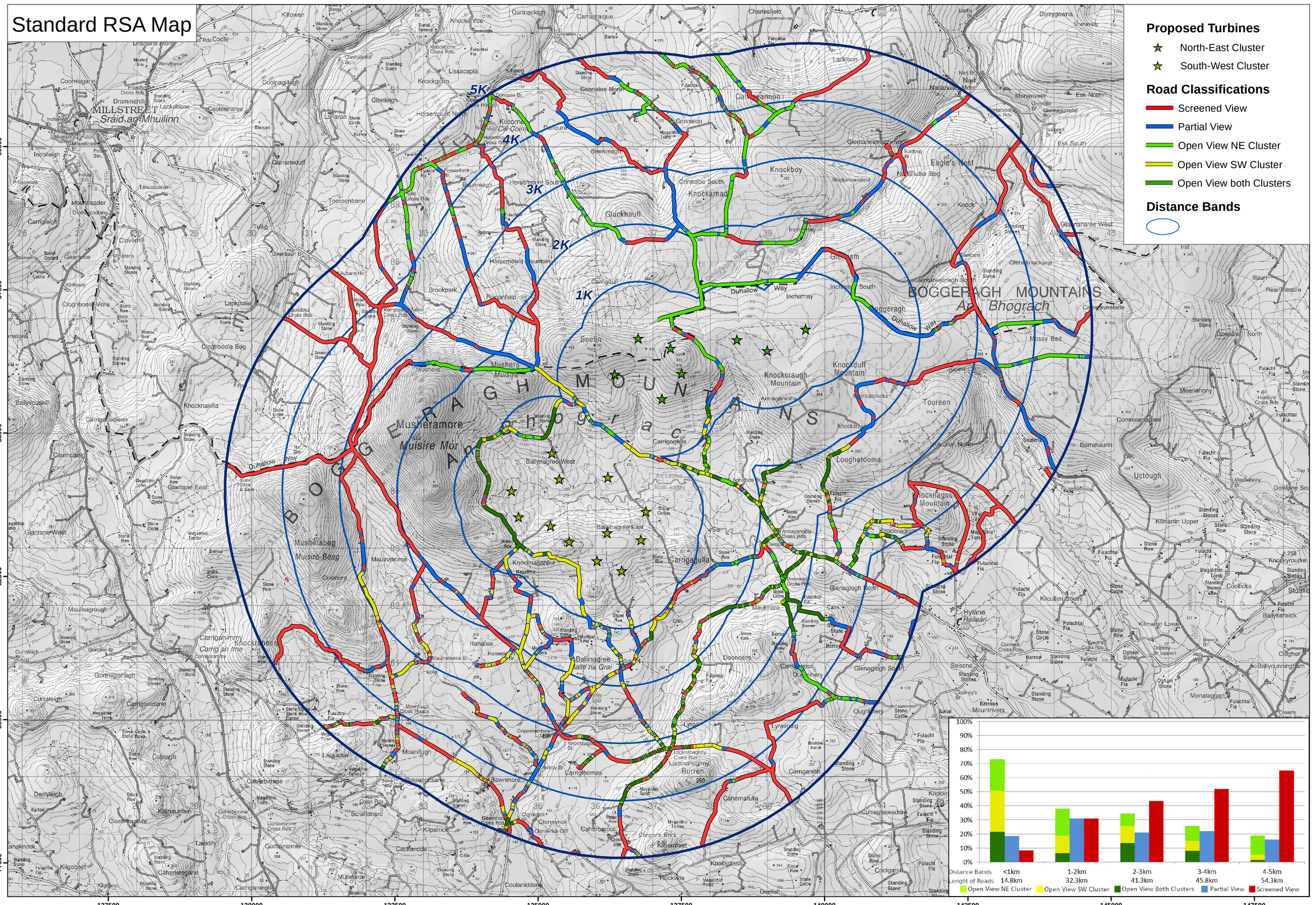
CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING

Appendix 15.2

A1 Mapping

Route Screening Assessment (RSA) - Screening Classification

Standard RSA Map


5K
4K
3K
2K
1K
BOGGERAGH MOUNTAINS
An Bhograch
Musheramore
Muisire Mór
Musheraboeg
Muisire Beag
Seecin
Mushera
Muisire
Ballynagree West
Ballynagree East
Ballinagree
Baile na Grai
Carrigagulla
Knockaphuca
Knockaphuca Mountain
Knockraugh Mountain
Knockduff Mountain
Knockaknagour Mountain
Knockaknagour
Knockaknagappul
Knockaknagappul Mountain
Knockaknagappul Br
Knockaknagappul Cross Rds
Knockaknagappul Megalithic Tomb
Knockaknagappul Standing Stone
Knockaknagappul Stone Row
Knockaknagappul Fulachtai Fia
Knockaknagappul Cairn
Knockaknagappul Boulder burial
Knockaknagappul Ogham Stone
Knockaknagappul Burial Ground
Knockaknagappul Barrow
Knockaknagappul Stone Circle
Knockaknagappul Stone Circle & Stone Row
Knockaknagappul Megalithic Tombs
Knockaknagappul Megalithic Tomb?
Knockaknagappul Megalithic Cist
Knockaknagappul Megalithic Cists
Knockaknagappul Megalithic Cist?
Knockaknagappul Megalithic Cist?
Knockaknagappul Megalithic Tomb?
Knockaknagappul Megalithic Tomb?
Knockaknagappul Megalithic Tomb

Theoretical Visual Intensity (TVI) map indicating the relative visual intensity of areas that have a potential view of the proposed Ballinagree Wind Farm turbines

590000

580000

530000

540000

550000

Proposed Turbines

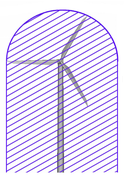
★

Visual Intensity Value (%)

- 1 - 5
- 5 - 10
- 10 - 25
- 25 - 50
- 50 - 75
- 75 - 100
- 100 - 250
- 250 - 500
- 500 - 750
- 750 - 1,007

Proposed Coom Extents

- 5km Extent (DSM)
- 10km Extent (DTM)



Draped area of 1 turbine at 1km

=

TVI Score of 100

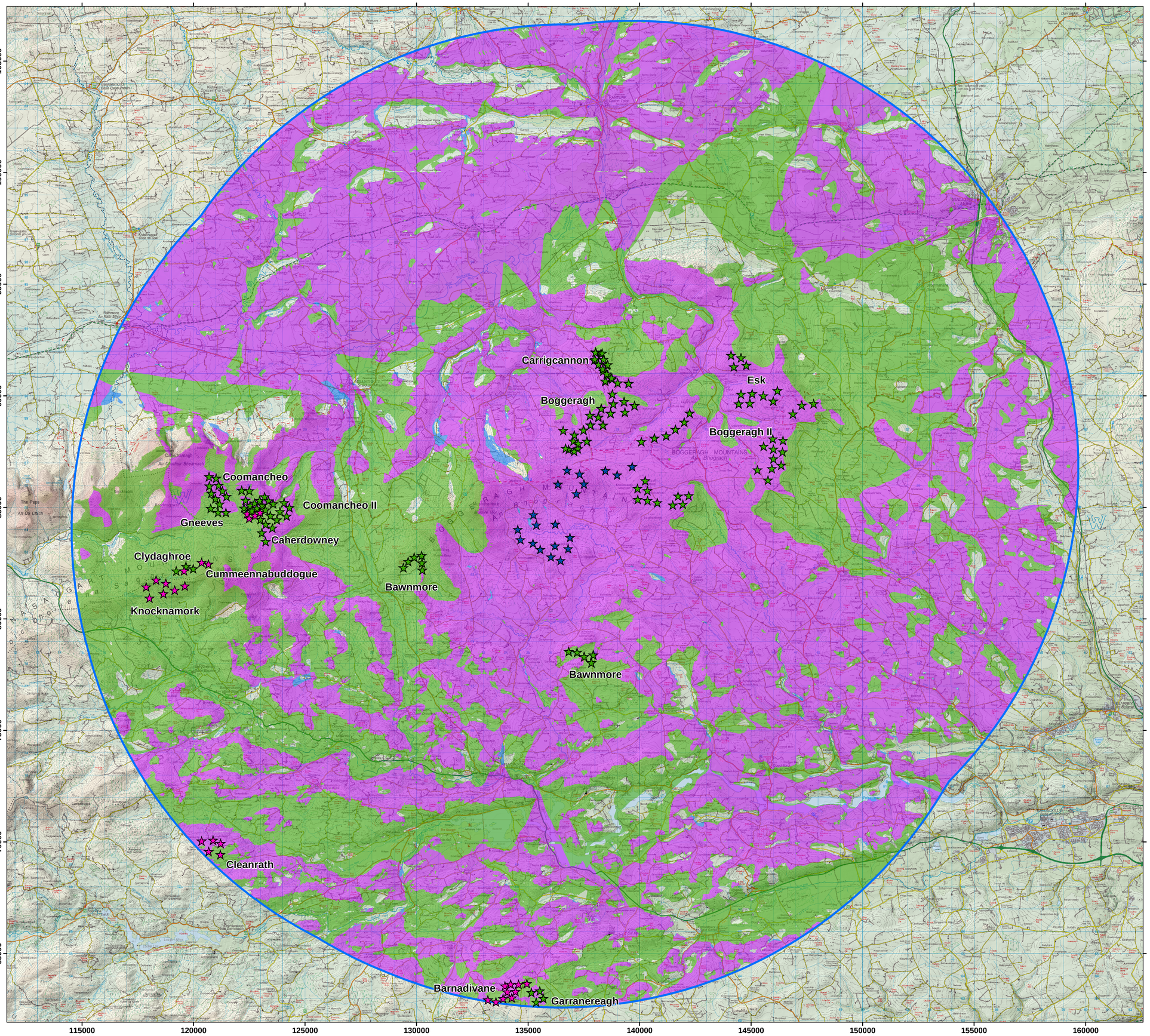
The values on this TVI map have been calibrated relative to the draped area of a single turbine at 1km distance being equal to a TVI Value of 100.

Note: It is important to read the TVI methodology in Appendix M2 for explanation of this map and the Visual Intensity values indicated

Scale: 1 : 45,000

macroworks

ZTV indicating the cumulative theoretical visibility of the proposed Ballinagree Wind Farm in combination with all other wind farms in the study area



Proposed Turbines

Existing Turbines

Permitted Turbines

Wind Farm Visibility

35.8% — *Visibility of existing and/or permitted turbines only*

55.6% — *Visibility of proposed turbines as well as existing and/or permitted turbines*

0.3% — *Visibility of proposed turbines only*

8.2% of the entire study area to 20km will not have any view of the turbine blades of the proposed Wind Farm or that of any permitted or existing wind farms

20km Extent

This ZTV map has been calculated such that a turbine registrers as been theoretically visible to observers in the surrounding landscape once there is an unobstructed line of sight to its blade tip.

Observer Height assumed: 2m to eye-level height
Blade Tip Heights: Variable

Note: This ZTV map is calculated for landform screening only and does not take account of the significant screening effects of vegetation (hedgerows, trees) and buildings inherent across the study area.

Scale: 1 : 82,000 if printed @ A1 size

macroworks

ZTV (Zone of Theoretical Visibility) indicating the areas that have a potential view of the proposed turbines at Ballinagree (Tip Height 185m)

VP1
VP2
VP3
VP4
VP5
VP6
VP7
VP8
VP9
VP10
VP11
VP12
VP13
VP14
VP15
VP16
VP17
VP18
VP19
VP20
VP21
VP22
VP23
VP24
VP25
VP26
VP27
VP28
VP29
VP30
VP31
VP32
VP33
VP34

605000
600000
595000
590000
585000
580000
575000
570000
565000

515000
520000
525000
530000
535000
540000
545000
550000
555000
560000

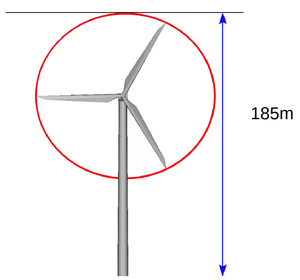
Proposed Turbines

Photomontage Viewpoints

No. Turbines Visible

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20

20km Extent



This ZTV map has been calculated such that a turbine registrers as been theoretically visible to observers in the surrounding landscape once there is an unobstructed line of sight to its blade tips.

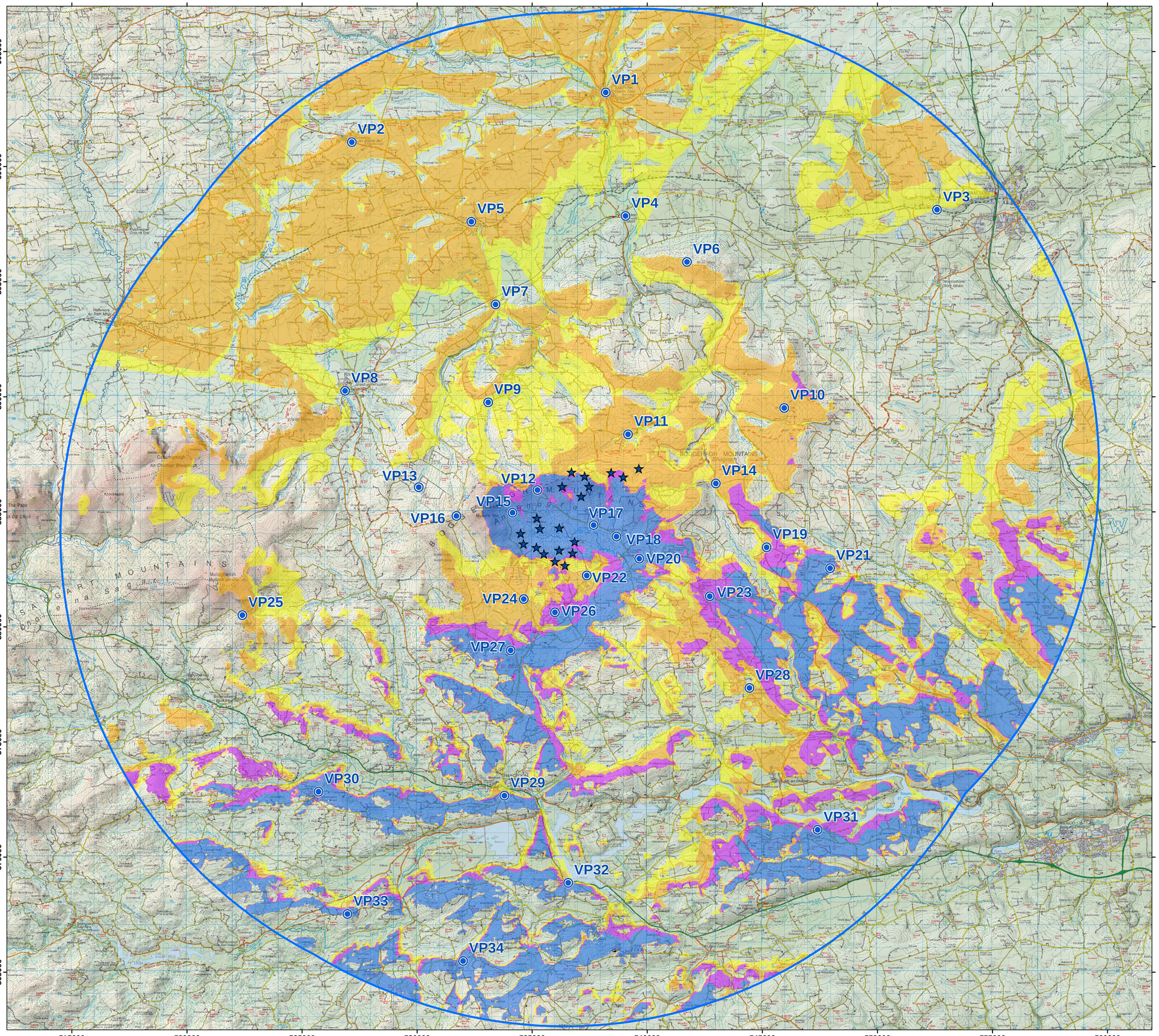
Observer Height assumed: 2m to eye-level height
Blade Tip Heights: 185m

Note: This ZTV map is calculated for landform screening only and does not take account of the significant screening effects of vegetation (hedgerows, trees) and buildings inherent across the study area.

Scale: 1 : 80,000 if printed @ A1 size

macroworks

ZTV (Zone of Theoretical Visibility) indicating the areas that have a potential view of the proposed turbines at Ballinagree (Hub Height 107.5m)



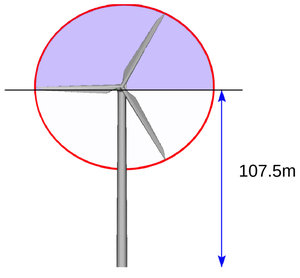
Proposed Turbines

Photomontage Viewpoints

No. Turbines Visible

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20

20km Extent



This ZTV map has been calculated such that a turbine registrers as been theoretically visible to observers in the surrounding landscape once there is an unobstructed line of sight to its nacelles.

Observer Height assumed: 2m to eye-level height
Nacelle Heights: 107.5m

Note: This ZTV map is calculated for landform screening only and does not take account of the significant screening effects of vegetation (hedgerows, trees) and buildings inherent across the study area.

Scale: 1 : 80,000 if printed @ A1 size

macroworks