

2	10/07/2019	JM	Third Issue.
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## Rigged Hill Windfarm Repowering

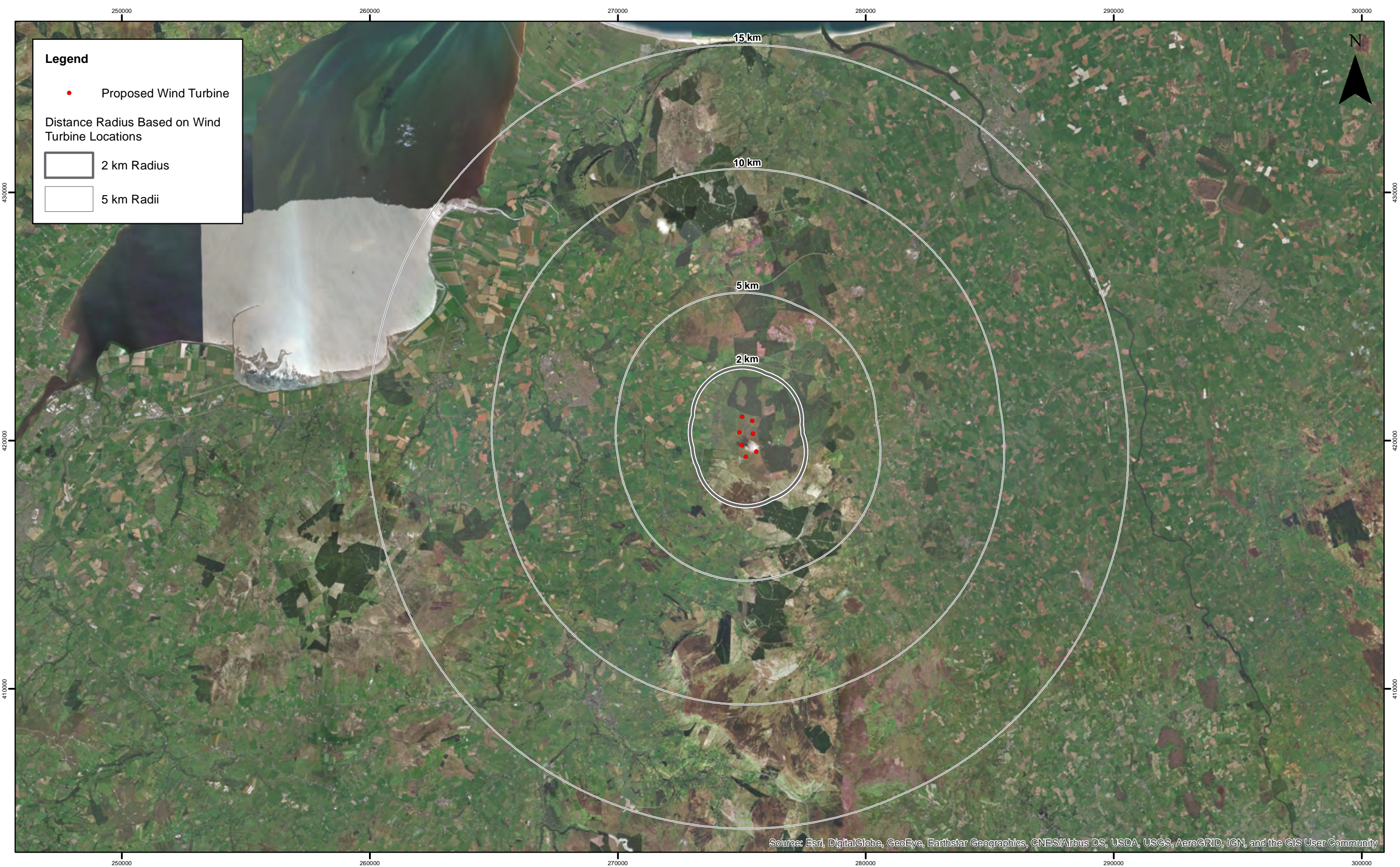
### Figure 6.1

### Study Area

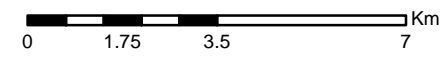
Drawing Number: 2607-LVIA-001	Datum TM65	Projection TM
Scale @ A3 1:270,000	Drawing produced by Optimised Environments Ltd.	

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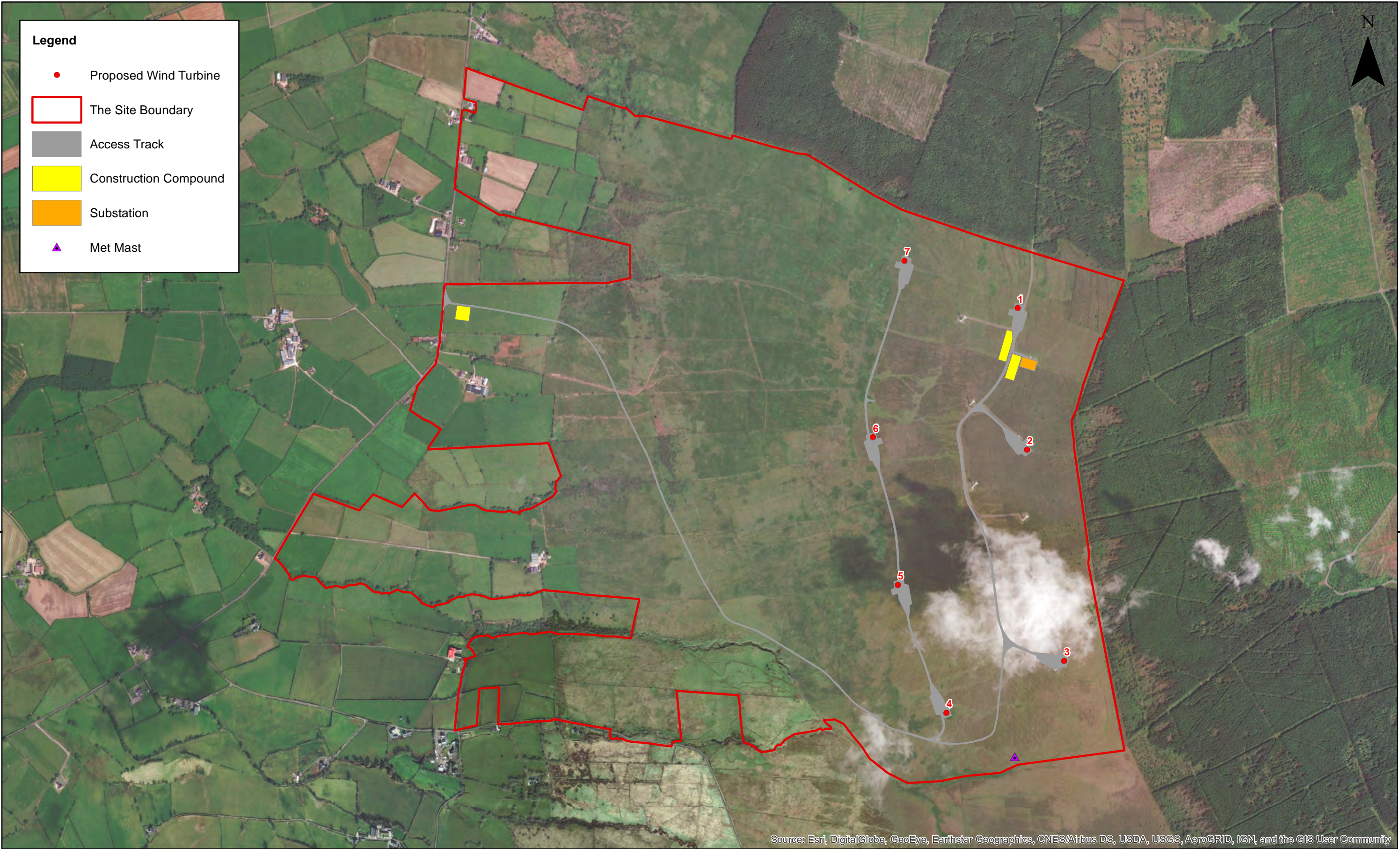
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**Rigg Hill Windfarm Repowering**  
**Figure 6.2a - Aerial**  
**Photograph - Landscape Context**

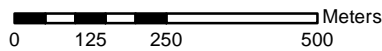
<b>Drawing Number:</b> 2607-LVIA-002	Datum TM65	Projection TM
Scale @ A3 1:140,000	Drawing produced by Optimised Environments Ltd.	

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**Rigged Hill Windfarm Repowering**  
**Figure 6.2b**  
**Aerial Photograph with Development**

**Drawing Number:**  
2607-LVIA-003

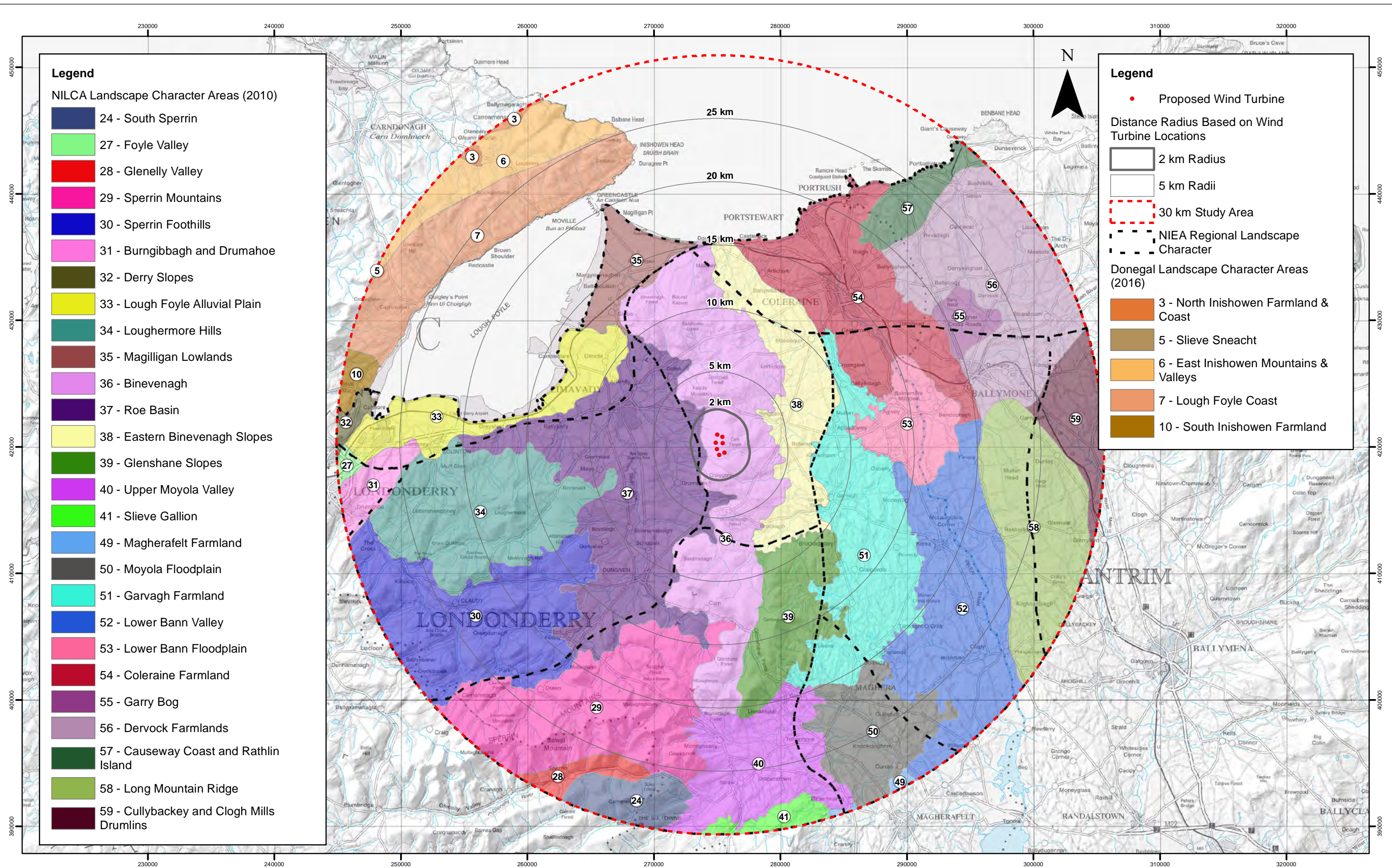
Scale @ A3  
1:12,500

Datum  
TM65

Projection  
TM

**Drawing produced by**  
**Optimised Environments Ltd.**





- Legend**
- NILCA Landscape Character Areas (2010)**
- 24 - South Sperrin
  - 27 - Foyle Valley
  - 28 - Glenelly Valley
  - 29 - Sperrin Mountains
  - 30 - Sperrin Foothills
  - 31 - Burngibbagh and Drumahoe
  - 32 - Derry Slopes
  - 33 - Lough Foyle Alluvial Plain
  - 34 - Loughermore Hills
  - 35 - Magilligan Lowlands
  - 36 - Binevenagh
  - 37 - Roe Basin
  - 38 - Eastern Binevenagh Slopes
  - 39 - Glenshane Slopes
  - 40 - Upper Moyola Valley
  - 41 - Slieve Gallion
  - 49 - Magherafelt Farmland
  - 50 - Moyola Floodplain
  - 51 - Garvagh Farmland
  - 52 - Lower Bann Valley
  - 53 - Lower Bann Floodplain
  - 54 - Coleraine Farmland
  - 55 - Garry Bog
  - 56 - Dervock Farmlands
  - 57 - Causeway Coast and Rathlin Island
  - 58 - Long Mountain Ridge
  - 59 - Cullybackey and Clogh Mills Drumlins

- Legend**
- Proposed Wind Turbine
- Distance Radius Based on Wind Turbine Locations**
- 2 km Radius
  - 5 km Radii
  - 30 km Study Area
  - NIEA Regional Landscape Character
- Donegal Landscape Character Areas (2016)**
- 3 - North Inishowen Farmland & Coast
  - 5 - Slieve Sneacht
  - 6 - East Inishowen Mountains & Valleys
  - 7 - Lough Foyle Coast
  - 10 - South Inishowen Farmland



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0 3.75 7.5 15 Km

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## Rigged Hill Windfarm Repowering

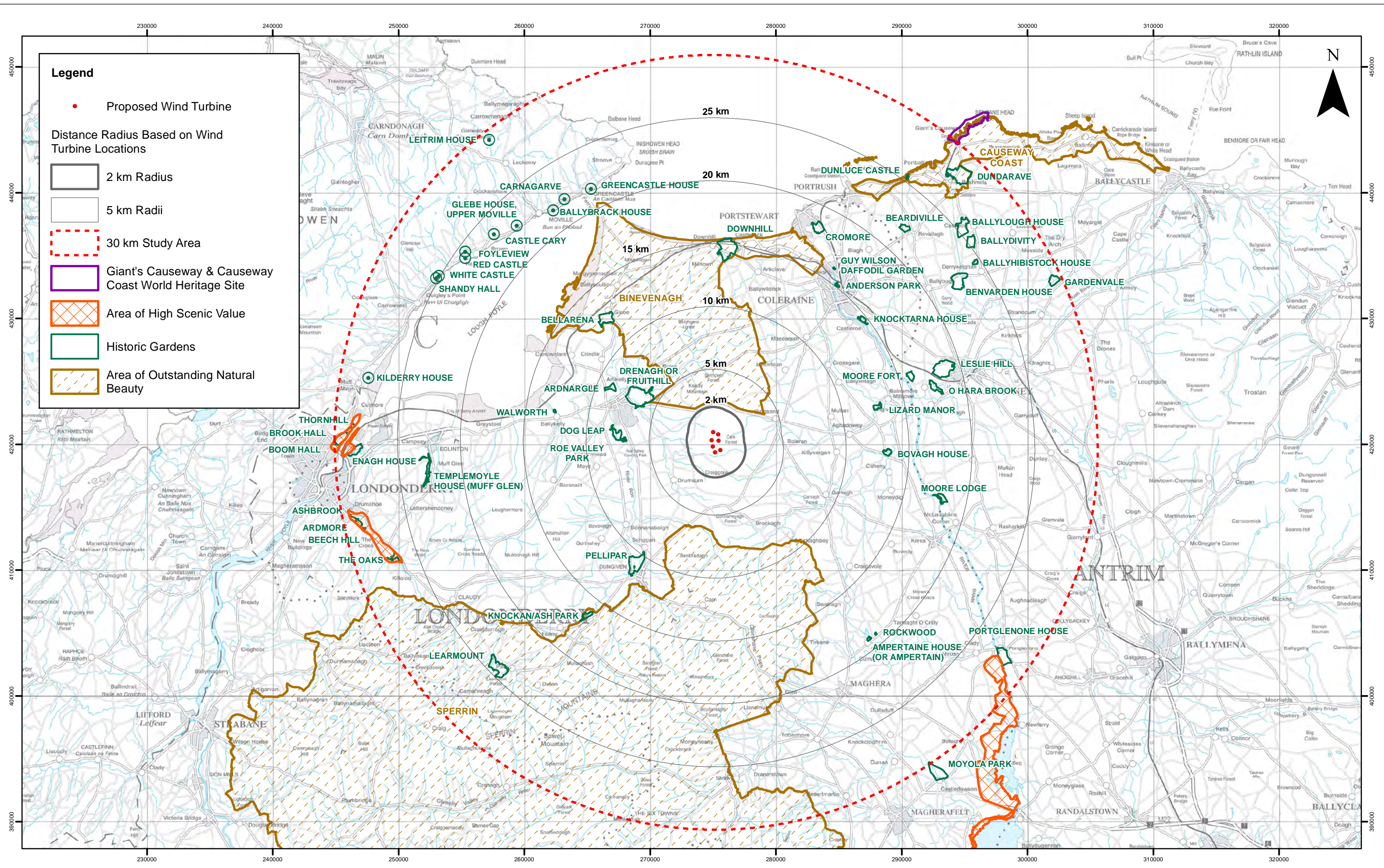
### Figure 6.3

### Landscape Character Areas

<b>Drawing Number:</b> 2607-LVIA-004	<b>Datum</b> TM65	<b>Projection</b> TM
<b>Scale @ A3</b> 1:270,000	<b>Drawing produced by</b> Optimised Environments Ltd.	

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**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Giant's Causeway & Causeway Coast World Heritage Site

Area of High Scenic Value

Historic Gardens

Area of Outstanding Natural Beauty

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0

3.75

7.5

15

Km

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**Rigged Hill Windfarm Repowering**

**Figure 6.4**

**Landscape Planning Designations**

**Drawing Number:**  
2607-LVIA-005

**Scale @ A3**  
1:270,000

**Datum**  
TM65

**Projection**  
TM

**Drawing produced by**  
**Optimised Environments Ltd.**

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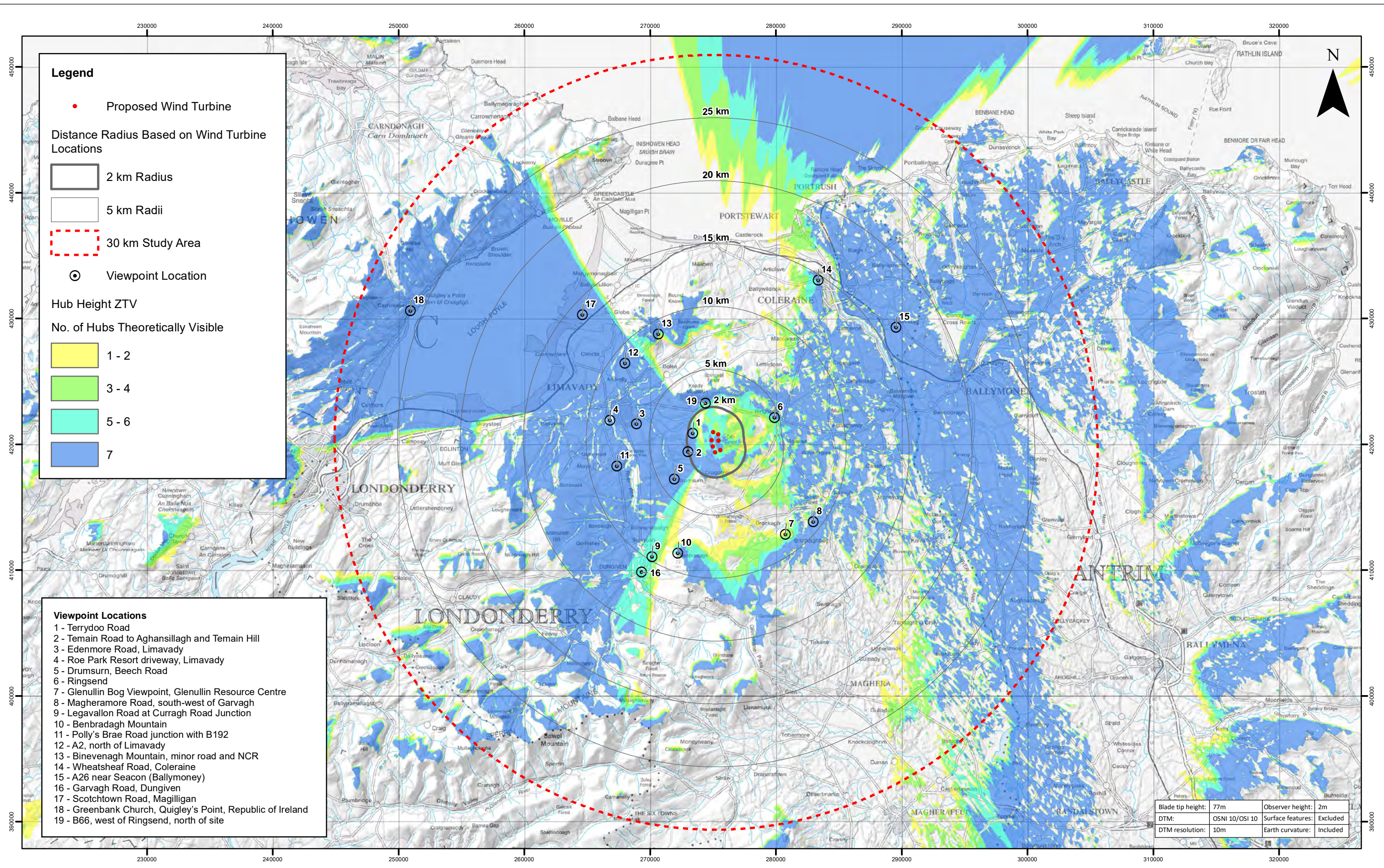












**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Viewpoint Location

Hub Height ZTV

No. of Hubs Theoretically Visible

1 - 2

3 - 4

5 - 6

7

- Viewpoint Locations**
- 1 - Terrydoo Road

2 - Tremain Road to Aghansillagh and Tremain Hill

3 - Edenmore Road, Limavady

4 - Roe Park Resort driveway, Limavady

5 - Drumsurn, Beech Road

6 - Ringsend

7 - Glenullin Bog Viewpoint, Glenullin Resource Centre

8 - Magheramore Road, south-west of Garvagh

9 - Legavallon Road at Curragh Road Junction

10 - Benbradagh Mountain

11 - Polly's Brae Road junction with B192

12 - A2, north of Limavady

13 - Binevenagh Mountain, minor road and NCR

14 - Wheatsheaf Road, Coleraine

15 - A26 near Seacon (Ballymoney)

16 - Garvagh Road, Dungiven

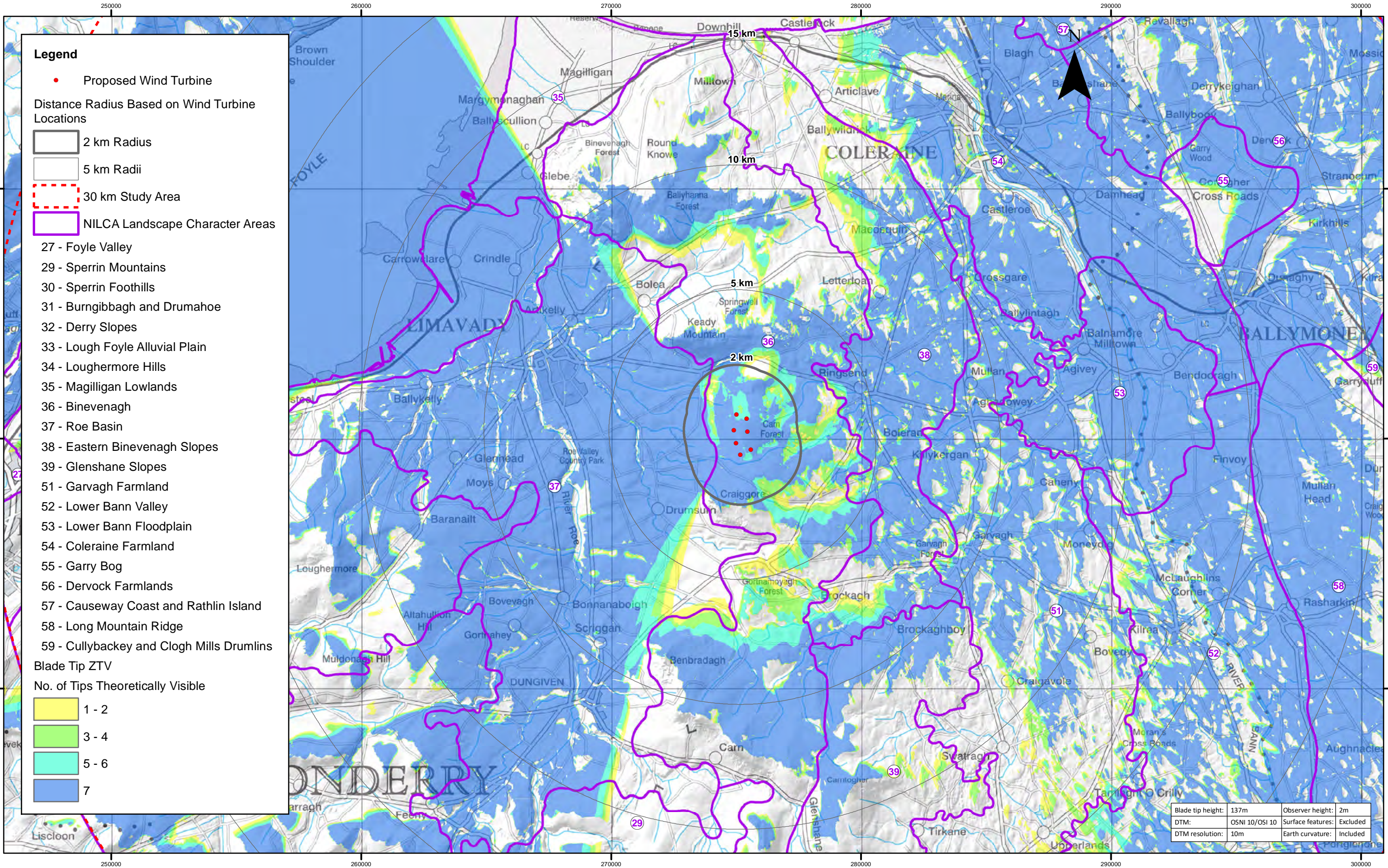
17 - Scotchtown Road, Magilligan

18 - Greenbank Church, Quigley's Point, Republic of Ireland

19 - B66, west of Ringsend, north of site

Blade tip height:	77m	Observer height:	2m
DTM:	OSNI 10/OSI 10	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





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0 1.75 3.5 7 Km

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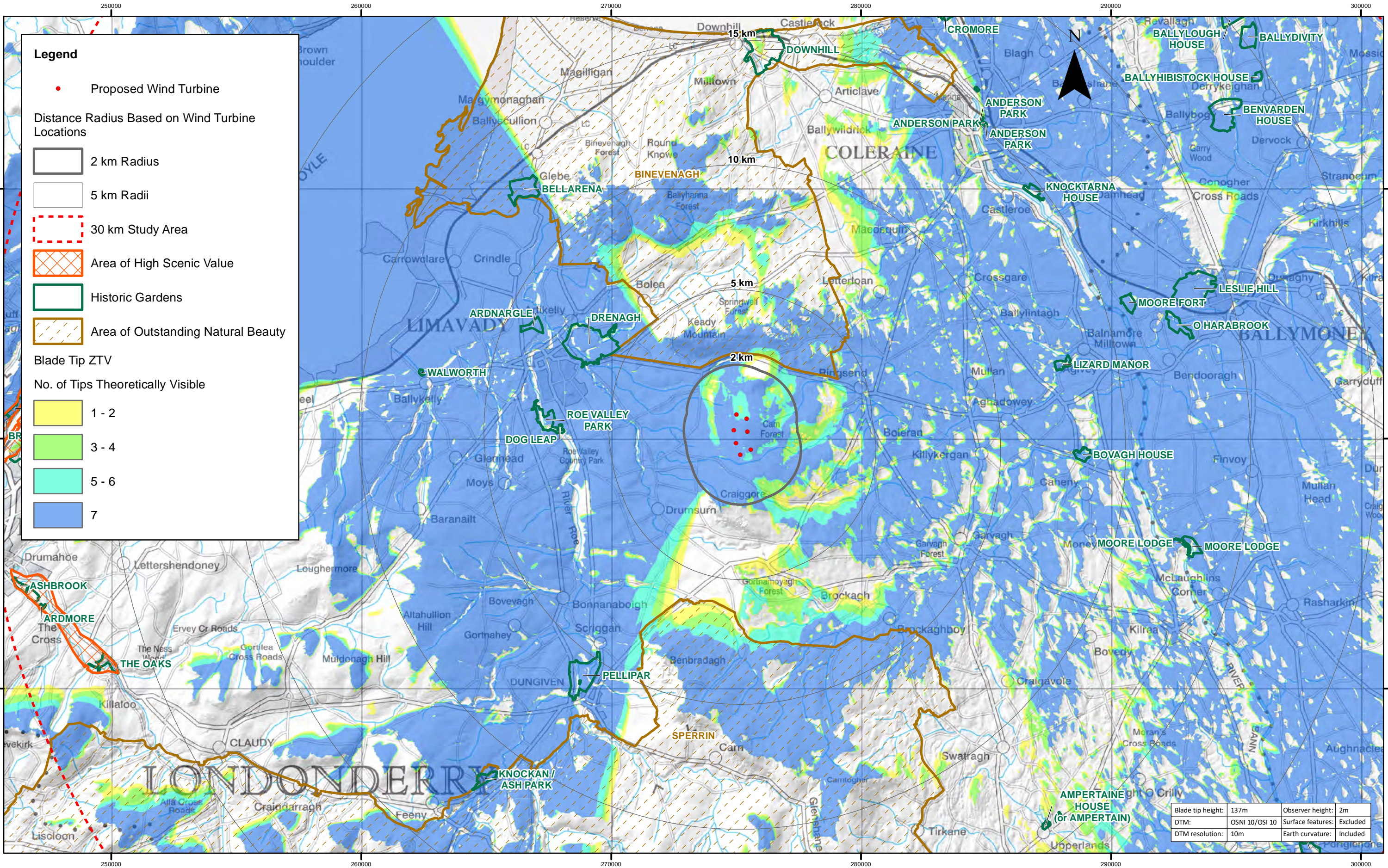
## Rigged Hill Windfarm Repowering

### Figure 6.8

### Landscape Character with ZTV

Drawing Number: 2607-LVIA-010	Datum TM65	Projection TM
Scale @ A3 1:140,000	Drawing produced by Optimised Environments Ltd.	





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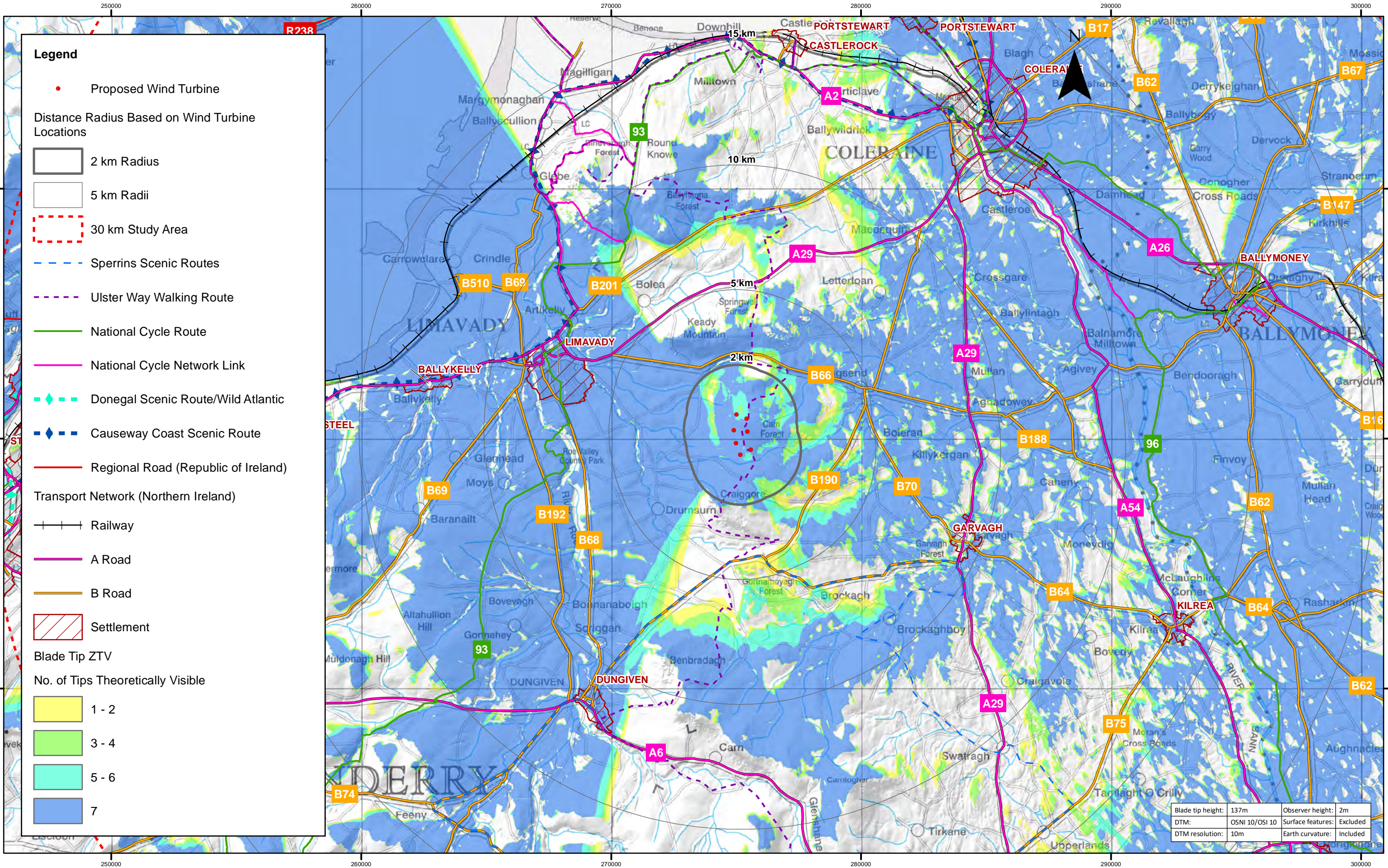
0 1.75 3.5 7 Km

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## Rigged Hill Windfarm Repowering Figure 6.9 Landscape Planning Designations with ZTV

Drawing Number: 2607-LVIA-011	Datum TM65	Projection TM
Scale @ A3 1:140,000	Drawing produced by Optimised Environments Ltd.	





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0 1.75 3.5 7 Km

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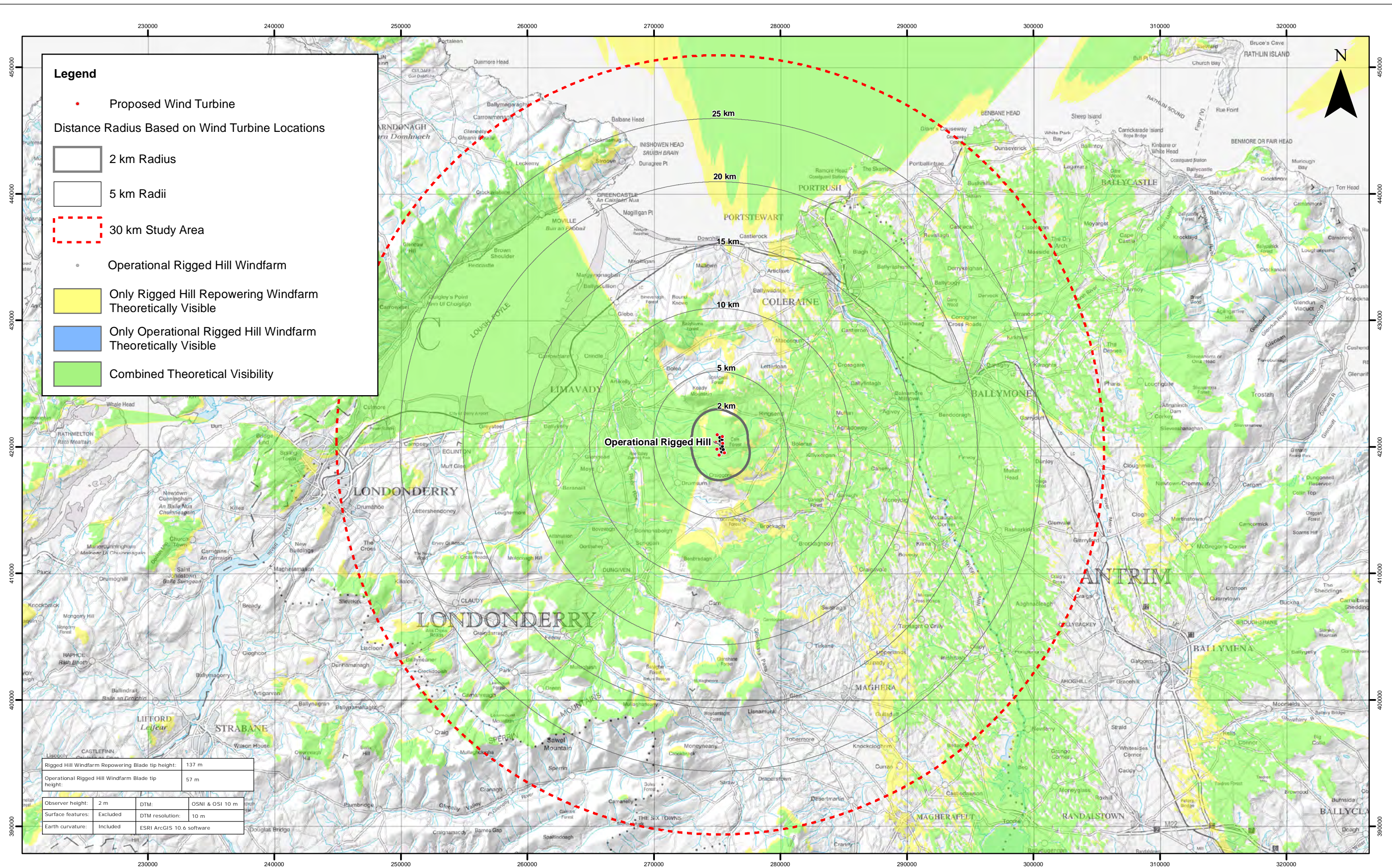
## Rigg Hill Windfarm Repowering

### Figure 6.10

### Principal Visual Receptors with ZTV

Drawing Number: 2607-LVIA-012	Datum TM65	Projection TM
Scale @ A3 1:140,000	Drawing produced by Optimised Environments Ltd.	





**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Operational Rigged Hill Windfarm

Only Rigged Hill Repowering Windfarm Theoretically Visible

Only Operational Rigged Hill Windfarm Theoretically Visible

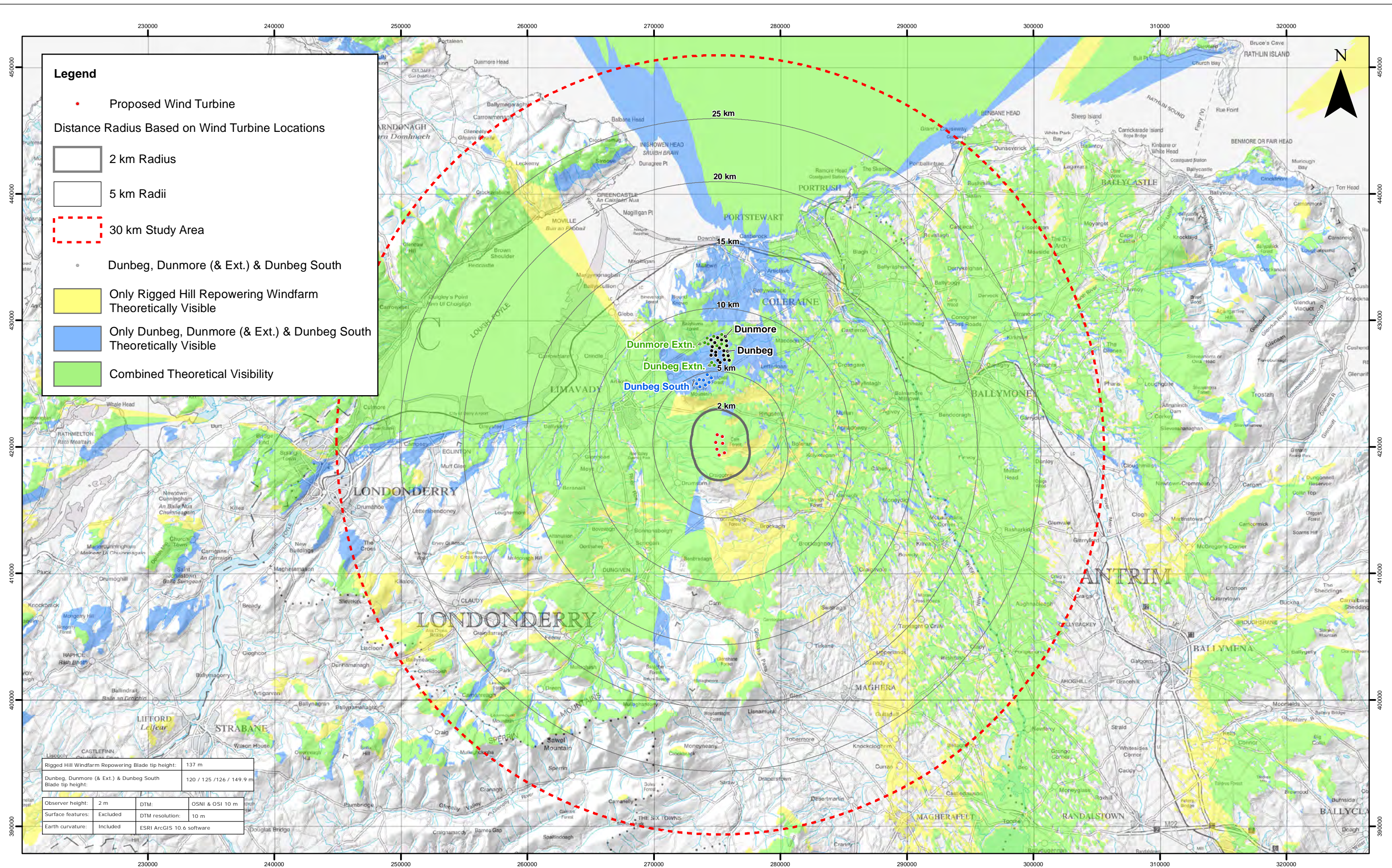
Combined Theoretical Visibility

Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Operational Rigged Hill Windfarm Blade tip height:		57 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	









Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Dunbeg, Dunmore (& Ext.) & Dunbeg South Blade tip height:		120 / 125 / 126 / 149.9 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	



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**Rigged Hill Windfarm Repowering**  
**Figure 6.13 CZTV with Dunbeg, Dunmore (& Ext.) & Dunbeg South**

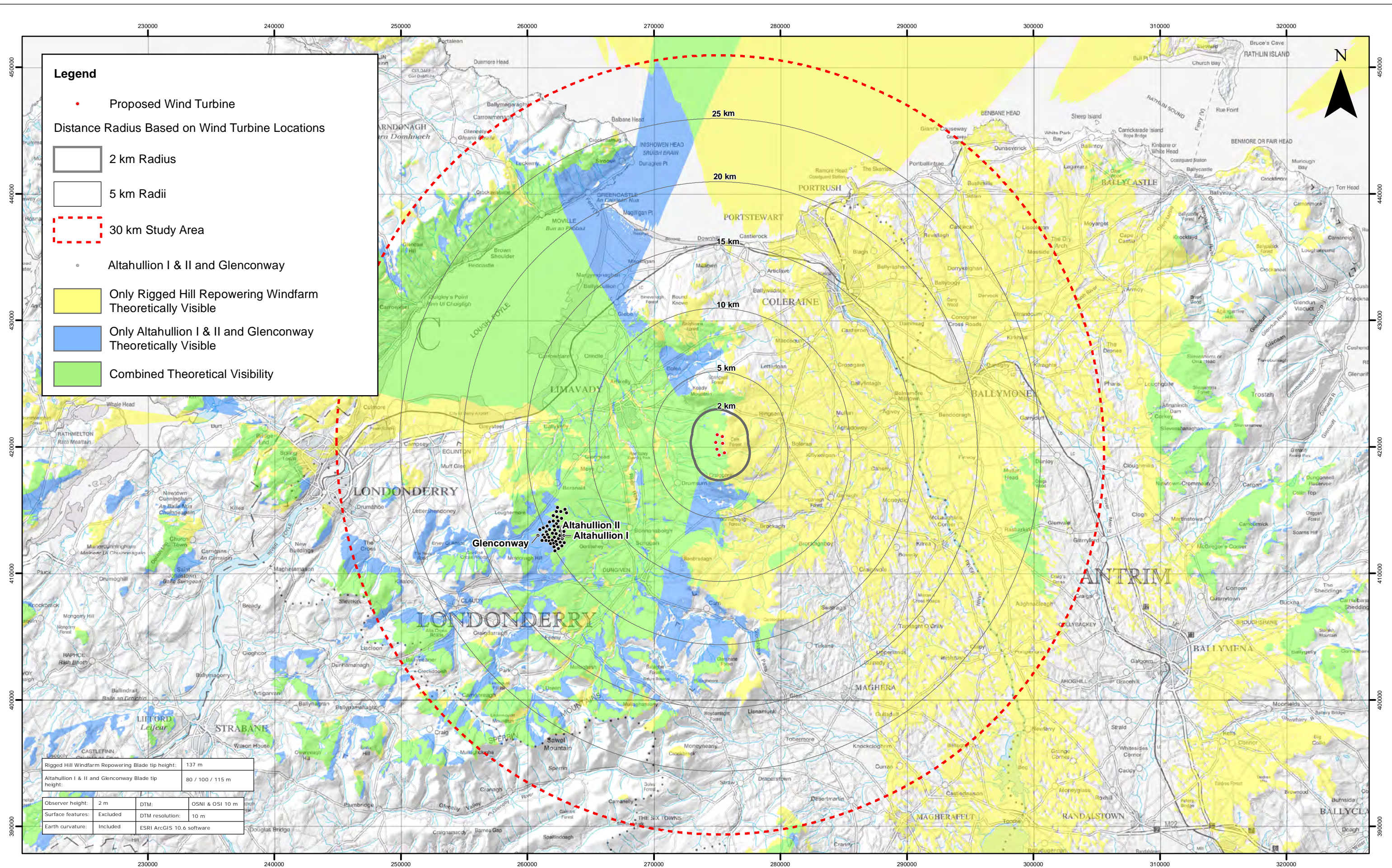
<b>Drawing Number:</b> 2607-LVIA-015	Datum TM65	Projection TM
Scale @ A3 1:270,000	<b>Drawing produced by</b> <b>Optimised Environments Ltd.</b>	

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Rigged Hill Windfarm Repowering Blade tip height:		137 m
Altahullion I & II and Glenconway Blade tip height:		80 / 100 / 115 m
Observer height:	2 m	DTM: OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution: 10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software



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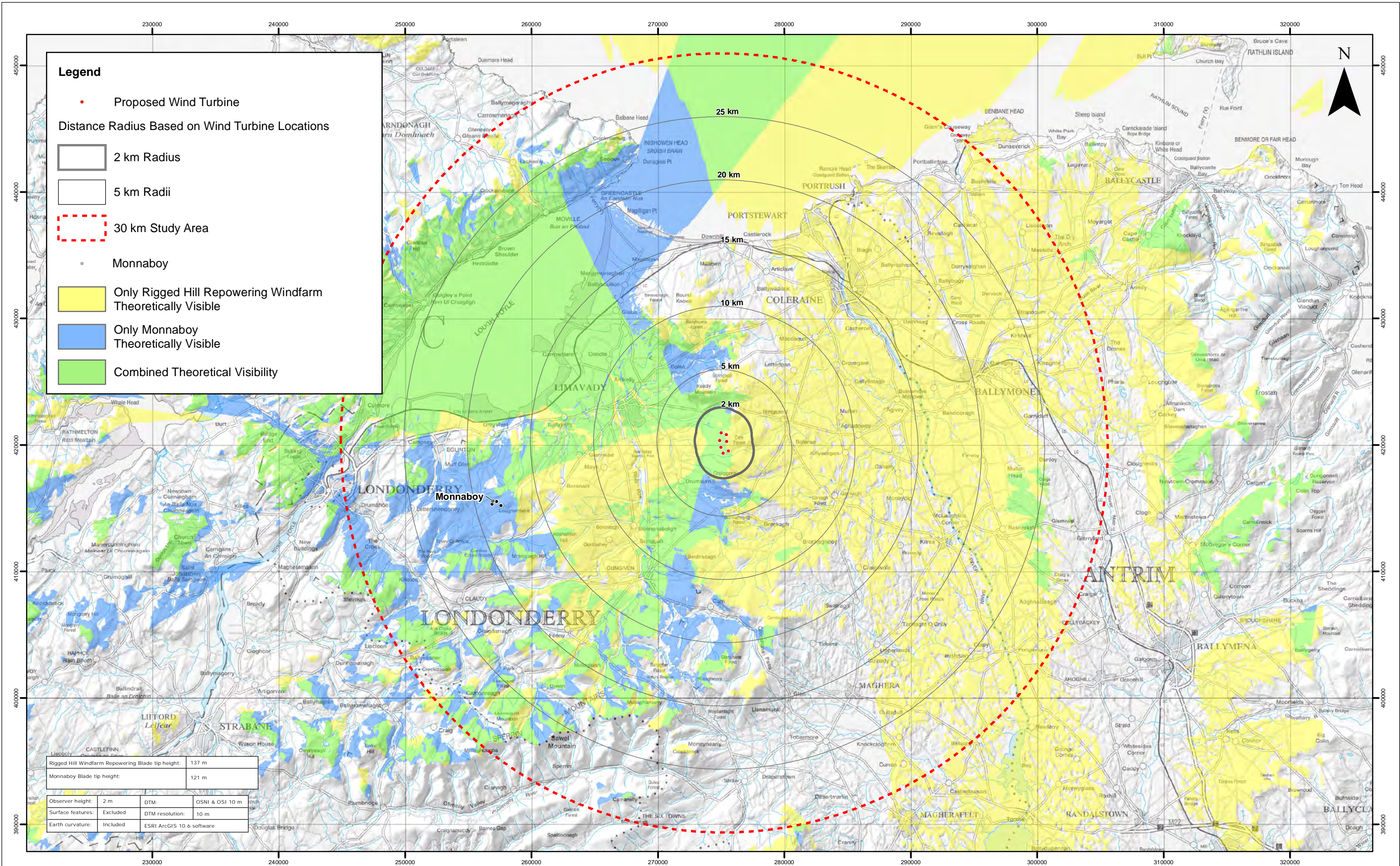
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## Rigged Hill Windfarm Repowering

### Figure 6.15 CZTV with Altahullion I & II and Glenconway

Drawing Number: 2607-LVIA-017	Datum TM65	Projection TM
Scale @ A3 1:270,000	Drawing produced by Optimised Environments Ltd.	





Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Monnaboy Blade tip height:		121 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	



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0 3.75 7.5 15 Km

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## Rigged Hill Windfarm Repowering Figure 6.16 CZTV with Monnaboy

Drawing Number:  
2607-LVIA-018

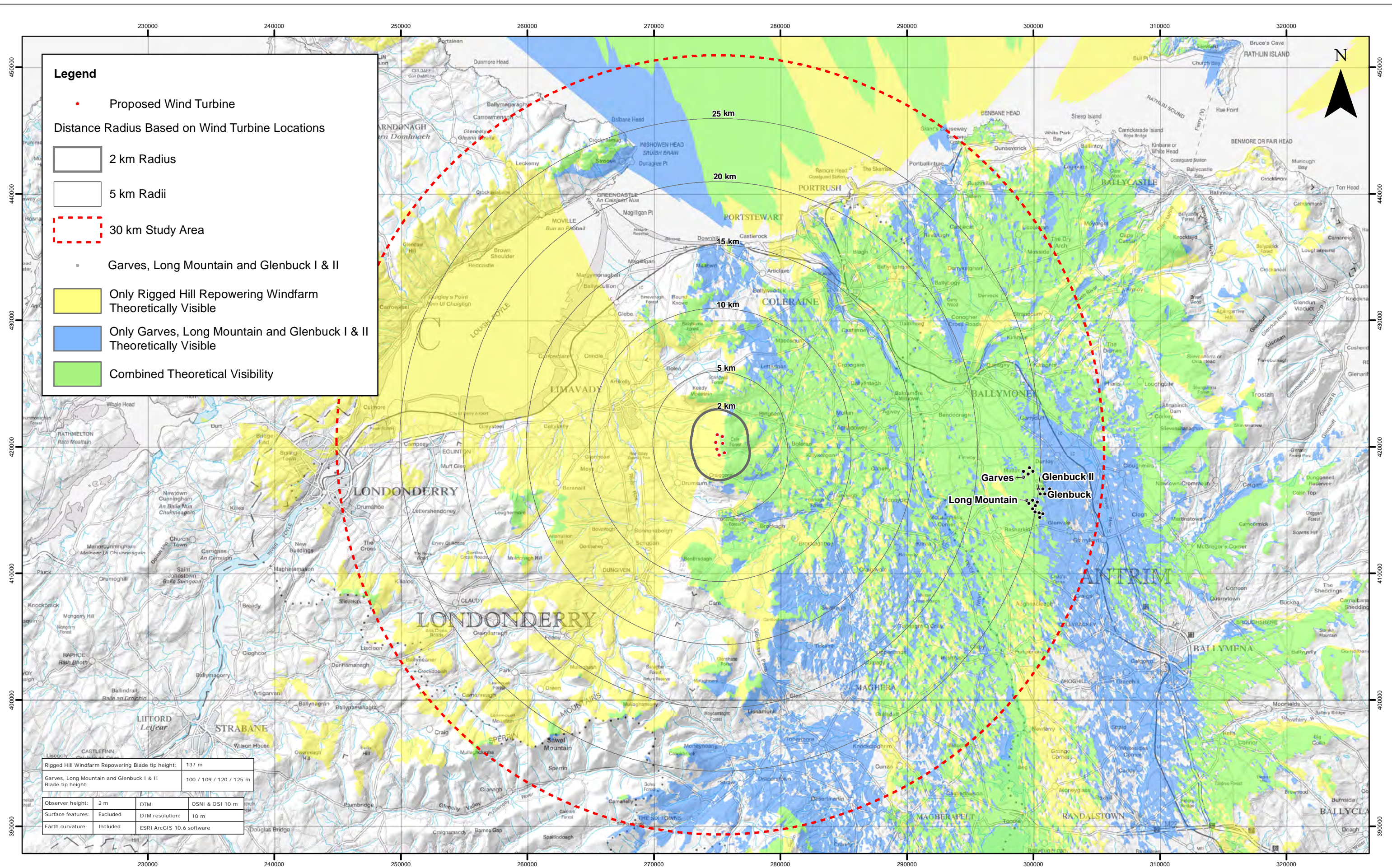
Scale @ A3  
1:270,000

Datum  
TM65

Projection  
TM

Drawing produced by  
Optimised Environments Ltd.





Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Garves, Long Mountain and Glenbuck I & II Blade tip height:		100 / 109 / 120 / 125 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	



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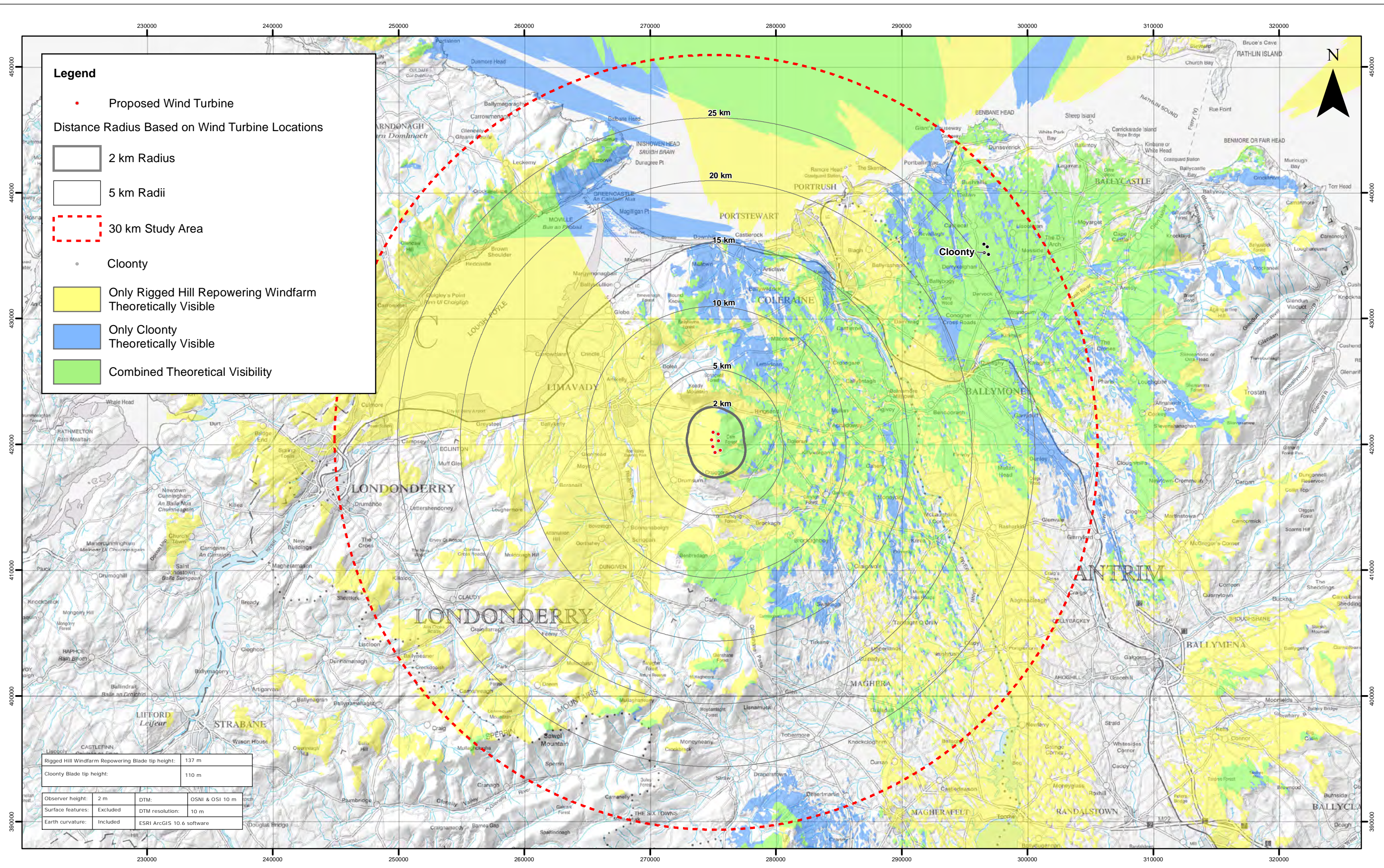
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**Rigged Hill Windfarm Repowering**  
**Figure 6.17 CZTV with Garves, Long Mountain and Glenbuck I & II**

<b>Drawing Number:</b> 2607-LVIA-019	<b>Datum</b> TM65	<b>Projection</b> TM
<b>Scale @ A3</b> 1:270,000	<b>Drawing produced by</b> <b>Optimised Environments Ltd.</b>	

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**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Cloonty

Only Rigged Hill Repowering Windfarm Theoretically Visible

Only Cloonty Theoretically Visible

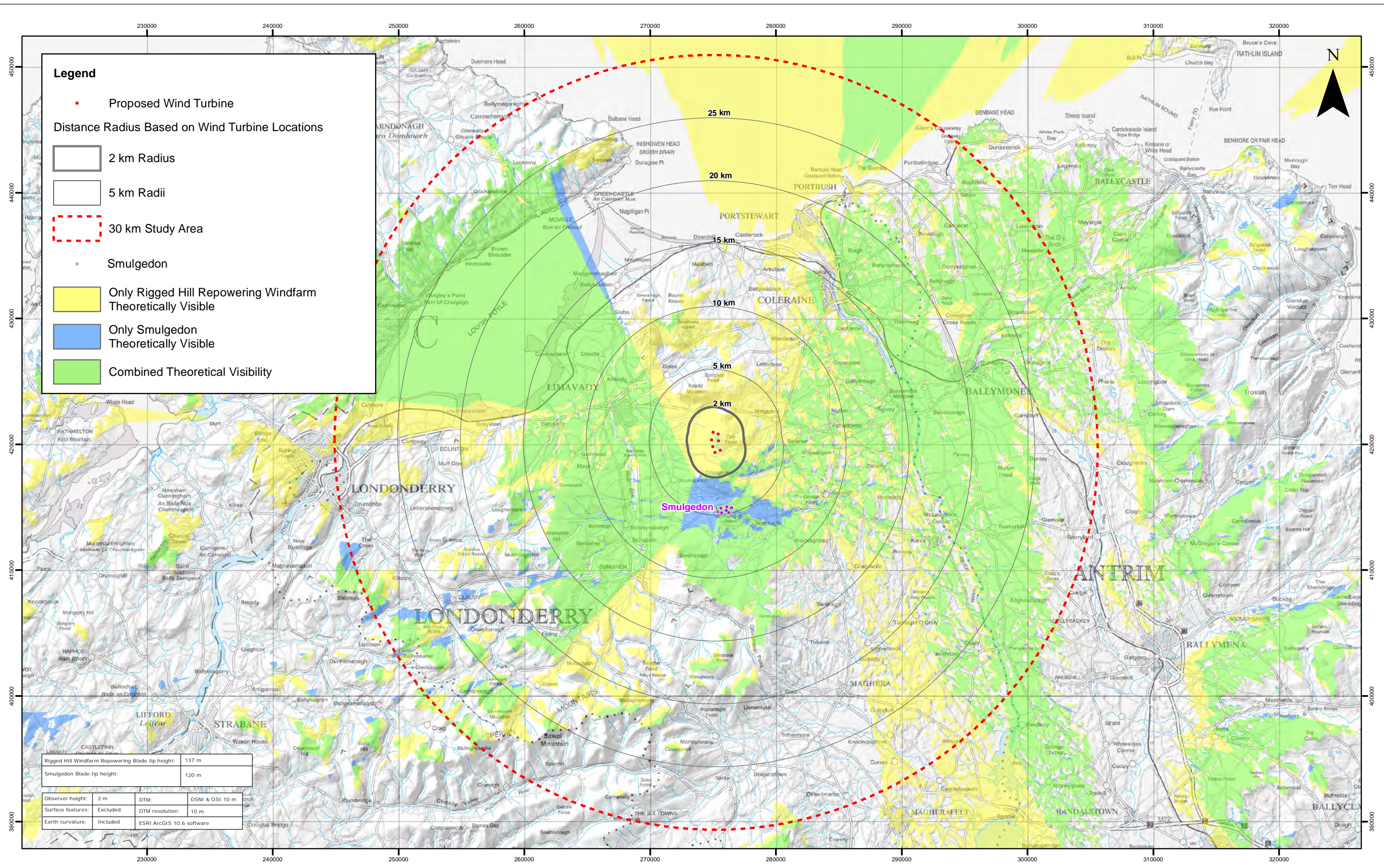
Combined Theoretical Visibility

Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Cloonty Blade tip height:		110 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	









Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Smulgedon Blade tip height:		120 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	



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Rigged Hill Windfarm Repowering

Figure 6.20 CZTV with Smulgedon

Drawing Number:

2607-LVIA-022

Scale @ A3

1:270,000

Datum

TM65

Projection

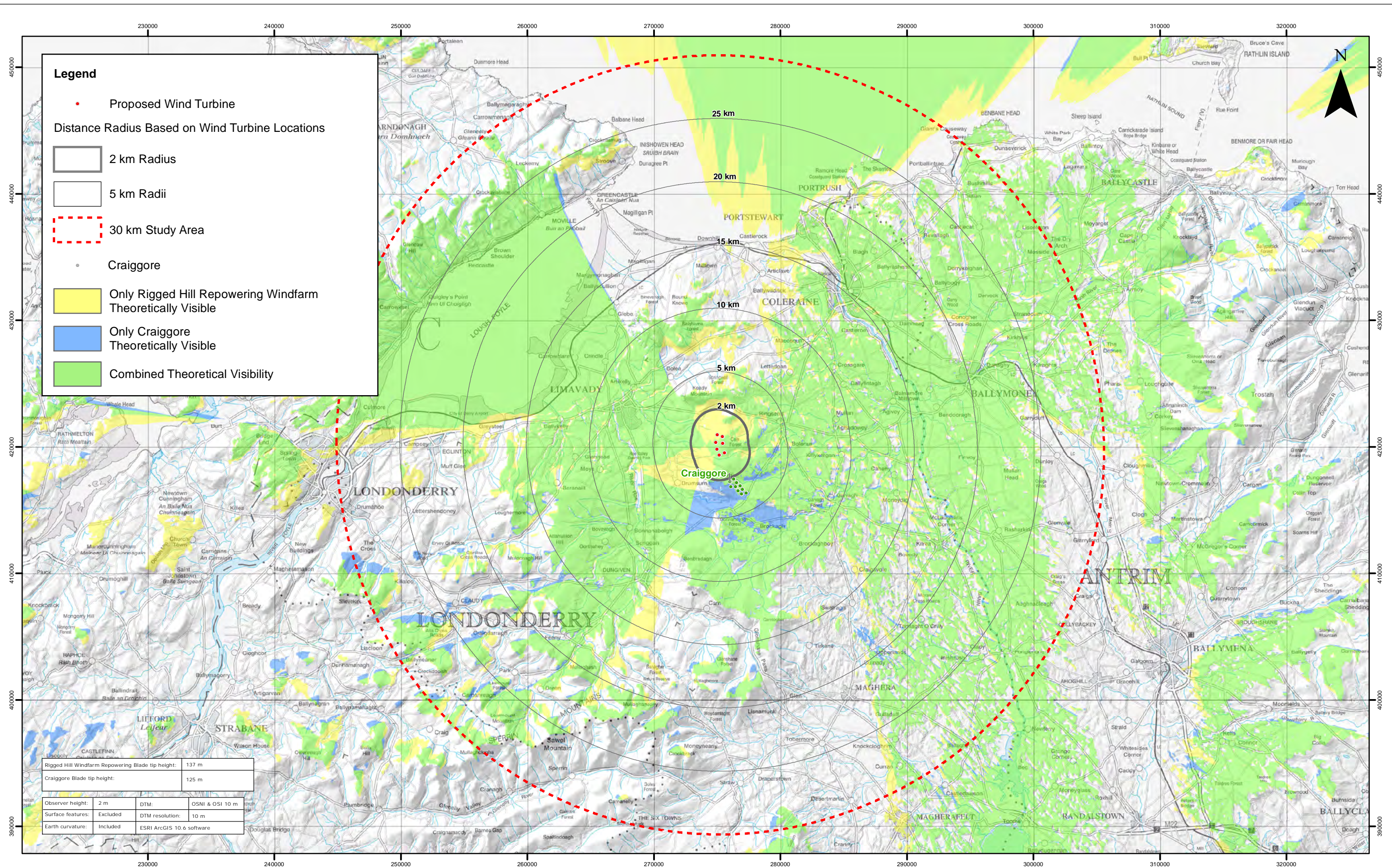
TM

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Optimised Environments Ltd.

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**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Craiggore

Only Rigged Hill Repowering Windfarm Theoretically Visible

Only Craiggore Theoretically Visible

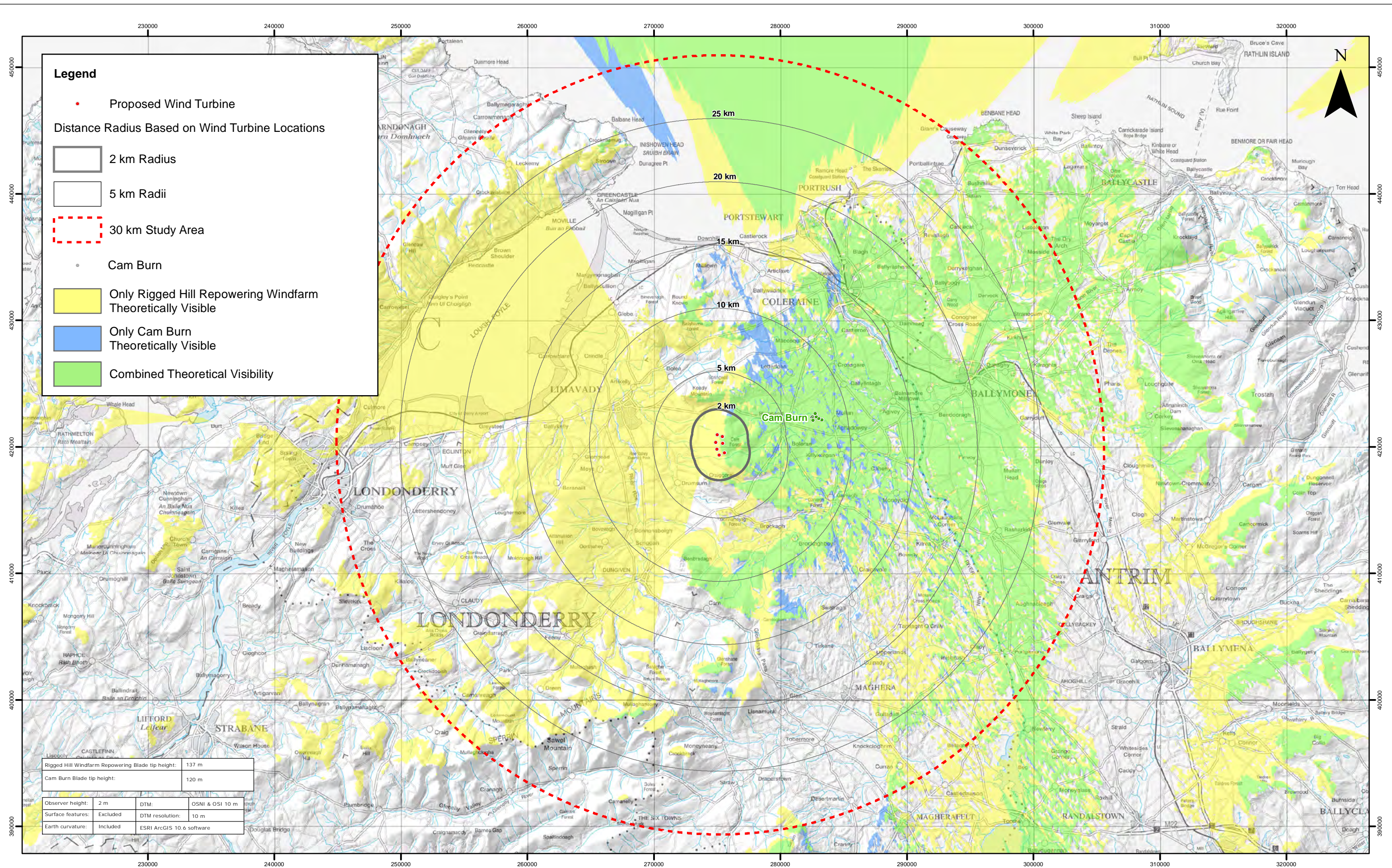
Combined Theoretical Visibility

Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Craiggore Blade tip height:		125 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	









**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Cam Burn

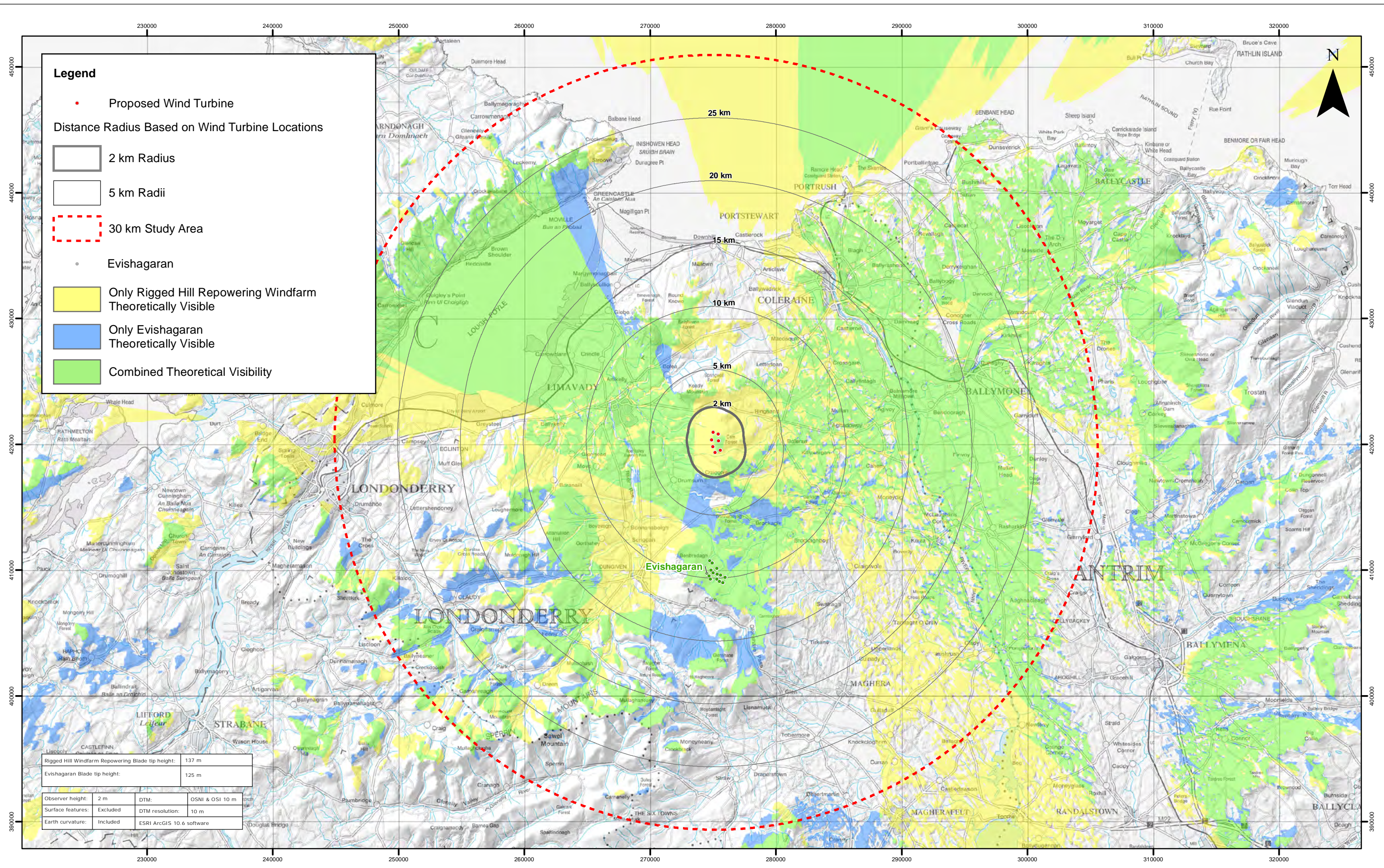
Only Rigged Hill Repowering Windfarm Theoretically Visible

Only Cam Burn Theoretically Visible

Combined Theoretical Visibility

Rigged Hill Windfarm Repowering Blade tip height:	137 m		
Cam Burn Blade tip height:	120 m		
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	





**Legend**

Proposed Wind Turbine

Distance Radius Based on Wind Turbine Locations

2 km Radius

5 km Radii

30 km Study Area

Evishagaran

Only Rigged Hill Repowering Windfarm Theoretically Visible

Only Evishagaran Theoretically Visible

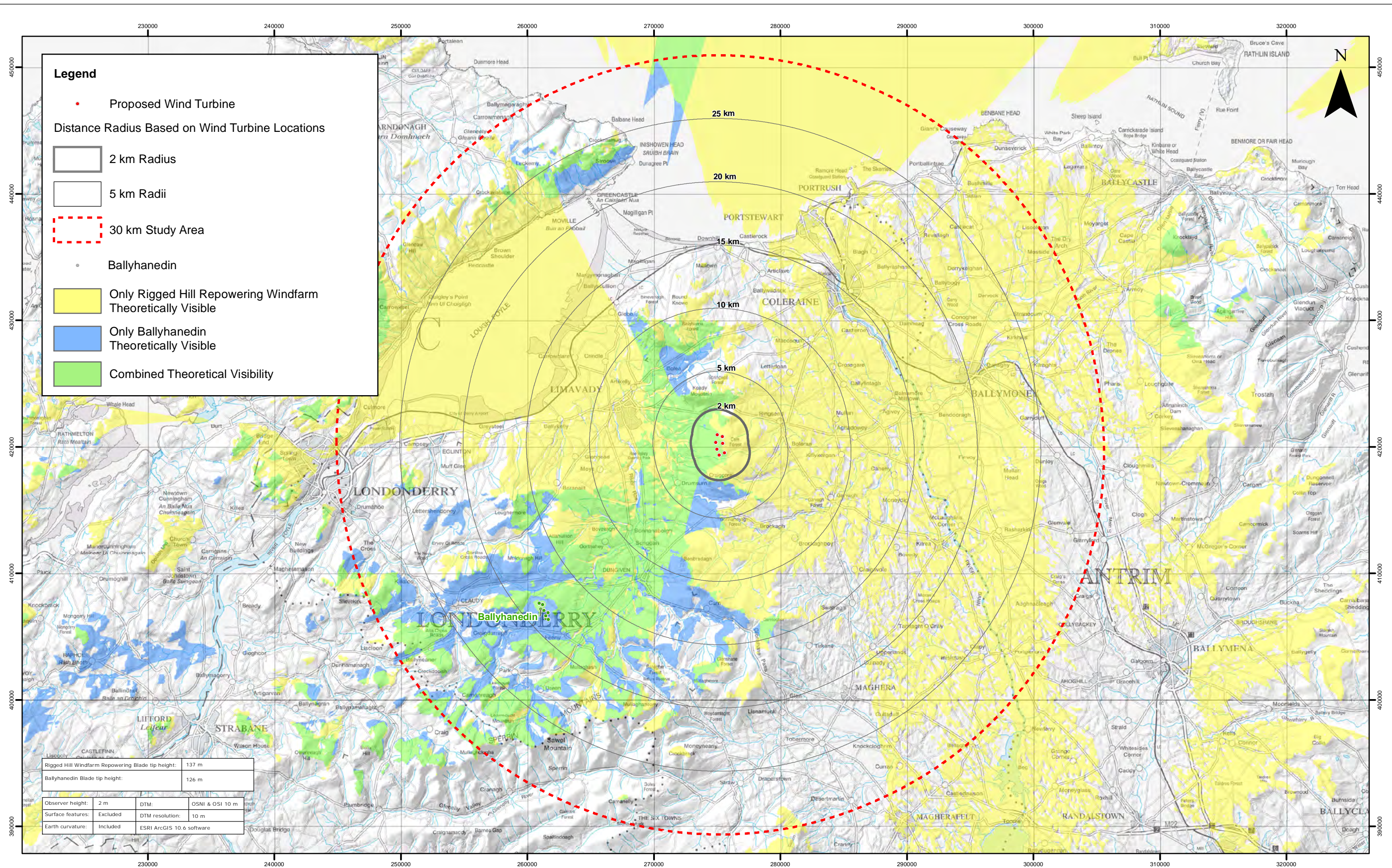
Combined Theoretical Visibility

Rigged Hill Windfarm Repowering Blade tip height:		137 m	
Evishagaran Blade tip height:		125 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	









Riggid Hill Windfarm Repowering Blade tip height:		137 m	
Ballyhanedin Blade tip height:		126 m	
Observer height:	2 m	DTM:	OSNI & OSI 10 m
Surface features:	Excluded	DTM resolution:	10 m
Earth curvature:	Included	ESRI ArcGIS 10.6 software	



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## Riggid Hill Windfarm Repowering

### Figure 6.26 CZTV with Ballyhanedin

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Scale @ A3 1:270,000	Drawing produced by Optimised Environments Ltd.	



