

DUNBEG SOUTH WIND FARM

In the townlands of The Gortcorbies, County Londonderry

ENVIRONMENTAL STATEMENT- PROPOSED ROTOR DIAMETER AMENDMENT
INCLUDING PRE-APPLICATION COMMUNITY CONSULTATION (PACC) REPORT
AND DESIGN & ACCESS STATEMENT



This document should be read in conjunction with the EIA submission for Dunbeg South Windfarm (LA01/2018/0200/F).



Contents

Chapter 1 NTS & Introduction	2
Chapter 2 Landscape and Visual Impact assessment	6
Chapter 3 Shadow Flicker	17
Chapter 4 Noise assessment	21
Chapter 5 Pre-Application Community Consultation (PACC) Report	22
Chapter 6 Design and Access Statement	32
Figures:	43
Appendices:	80

Chapter 1 NTS & Introduction

The ES has been prepared by RES, various consultees and in collaboration with the subject specialists outlined below.

Specialism	Author
Introduction; Shadow Flicker; Noise Assessment; Pre-Application Community Consultation (PACC) Report; Design and Access Statement	RES
Landscape and Visual Impact Assessment	Shanti McAllister Landscape Planning & Design

Commenting on the ES

The full ES, together with supporting documents submitted as part of the planning application (Design and Access Statement and Pre-Application Community Consultation Report) will be available for viewing during normal opening hours at the address below:

Viewing Location	Address
Limavady Library	5 Connell Street Limavady County Londonderry BT49 0EA Phone: 028 7776 2540

An electronic version of the reports supporting the application, including the ES, will be available to download free of charge from <http://www.dunbegsouth-windfarm.co.uk>

Copies of the ES can be obtained at a cost of £50 from the address below:

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Introduction

- 1.1 Dunbeg South Wind Farm (Planning ref: LA01/2018/0200/F) obtained planning consent for 9 no. turbines on 17th December 2019 (see Appendix 1 for Approval of Planning Permission).
- 1.2 Consent was obtained for; A wind farm development comprising up to 9 three bladed wind turbines, each up to a maximum of 149.9m tip height, associated external electricity transformers, underground cabling, a new created site entrance, access tracks, turning heads, crane hardstandings, control building and substation compound. During construction and commissioning there would be a number of temporary works including a construction compound with car parking, temporary parts of crane hardstanding, welfare facilities and temporary guyed meteorological masts. This consented planning application was accompanied by an Environmental Statement dated 2018 and by Further Environmental Information which was received by Causeway Coast and Glens Borough Council Planning in April 2019.
- 1.3 Dunbeg South Windfarm is located approximately 6km N E of Limavady which are located immediately to the south of Broad Road (A37) in the Town land of Gortcorbies Co Derry/Londonderry.
- 1.4 The developer, RES, is seeking permission to increase the rotor diameter on the consented Dunbeg South Wind farm (LA01/2018/0200/F) of the turbines from 99.8m to 117 m but retain the overall blade tip height which would mean a reduction of turbine hub height to a minimum of 91.4 m. These changes equate to an overall increase in rotor diameter up to 17.2 m and an overall decrease in hub height of up to 8.6 m.
- 1.5 This planning application seeks to amend the rotor diameter of the consented wind turbines from 99.8 to up to 117m, no other amendments are proposed to the already consented wind farm. The rotor increase proposed at Dunbeg South Windfarm would not increase the number of properties potentially impacted within 10RD, the closest property within the vicinity of the windfarm is located 1239m from the nearest turbine location.

Purpose of the Development

- 1.6 The purpose of the proposed wind farm is to generate renewable energy; the proposed rotor diameter amendment will facilitate the installation of more

efficient wind turbines making the wind farm more productive in terms of generation capacity and more efficient overall.

Consultation

- 1.7 On the 16th March 2022 the Department of Infrastructure (DFI) wrote to RES stating that they did not consider that the proposed rotor diameter amendment at the Dunbeg South wind farm would be of regional significance nor would involve a substantial departure from the local development plan. It was confirmed that this proposed planning application should be made to the Local Council - Planning Department of Causeway Coast & Glens Borough Council.

Proposed Development

- 1.8 In accordance with The Planning (Development Management) Regulations (Northern Ireland) 2015, applications for energy infrastructure are considered to be 'Major Developments' where it exceeds 5 MW's and are considered to be 'Major Developments' as prescribed in Section 26 (1) of the Planning Act (NI) 2011 where the construction of an electricity generating station where its capacity is or exceeds 30 MW's.
- 1.9 The Planning (Environmental Impact Assessment) Regulations 2015 provides the procedures which should be adhered to when preparing and assessing planning application which are of an EIA nature. Part 4, section 12 of the Regulations provides the details regarding subsequent applications made where environmental information was previously provided, 12 (2) states that *'where it appears to the council that the environmental information already before it is adequate to assess the environmental effect of the development, it shall take that information into consideration in its decision for subsequent consent'*.
- 1.10 This planning application seeks to amend the rotor diameter of the consented wind farm to a diameter of up to 117m, there are no other amendments proposed to the already consented wind farm (LA01/2018/0200/F). Given that no amendments are proposed to the footprint of the consented wind farm it is considered that the original Environmental Impact Assessment which was submitted in 2018 and the supplementary FEI in 2019 is deemed adequate in line with the prescriptions of the Regulations.

1.11 This application should therefore be read in conjunction with the original Environmental Impact Assessment which was submitted in 2018 and the supplementary FEI in 2019.

Accompanying Information

1.12 The following information has been updated and is provided along with this planning application:

- Landscape and Visual - the proposed amendment will allow consideration of a wider range of turbine models for installation at the site. An updated landscape and visual impact report has been provided in the accompanying document (See Chapter 2 of this Report).
- Shadow Flicker - the proposed amendment will allow consideration of a wider range of turbine models for installation at the site. The potential shadow flicker impacts of these alternative turbine models are considered in the accompanying shadow flicker assessment document; (See Chapter 3 of this Report)
- Noise - the proposed amendment will allow consideration of a wider range of turbine models for installation at the site. The potential noise impacts of the alternative turbine model is considered in the accompanying noise assessment document (See Chapter 4 of this Report);

Chapter 2 Landscape and Visual Impact assessment

Introduction

Overview of the Proposed Wind Farm

- 2.1 Dunbeg South Wind Farm received planning consent in December 2019 (Ref: LA01/2018/0200/F) for a scheme comprising nine turbines with rotor diameters of 99.8 m, hub heights of 100 m and overall heights to blade tip of 149.9 m. The developer, RES, is seeking permission to increase the rotor diameter of the turbines to 117 m but retain the overall blade tip height which would mean a reduction of turbine hub height to a minimum of 91.4 m. These changes equate to an overall increase in rotor diameter of up to 17.2 m and an overall decrease in hub height of up to 8.6 m. The reasons for the proposed changes in turbine dimensions are given in the information which accompanies this application. The locations of all proposed turbines will remain unchanged from the consented scheme.
- 2.2 The original Landscape and Visual Impact Assessment (LVIA), which was prepared in 2018 is intended to be read alongside this Addendum. It is referred to throughout this Addendum as the 'original LVIA'.
- 2.3 Via this Addendum, it is RES's intention to provide sufficient supplementary information on the potential environmental effects of this proposed amendment to the consented turbine dimensions to allow the local planning authority, Causeway Coast and Glens Council, to approve the revised scheme. As part of this revised environmental information RES has appointed Shanti McAllister to prepare an Addendum to the existing Landscape and Visual Impact Assessment (LVIA) of Dunbeg South Wind Farm which formed part of the consented application.

Statement of Authority for the Author

- 2.4 This Addendum and the original LVIA have been prepared by Shanti McAllister Landscape Planning and Design Limited (hereinafter referred to as SMc Ltd) on

behalf of the Applicant, RES Ltd (hereinafter referred to as RES). SMc Ltd is an independent consultant and Chartered Landscape Architect with over 20 years' experience of preparing LVIAs for major development proposals including a large number of wind farms in Northern Ireland.

Structure of this Report

2.5 This Addendum will address the following landscape and visual issues:

- Identify any changes to the baseline landscape and visual characteristics of the 30km Study Area, including any changes to planning policy and guidance since the original LVIA;
- Identify and assess any significant landscape and visual effects resulting from the proposed increase in turbine dimensions;
- The baseline description of landscape character and analysis of effects can be found starting at section 4.51 of the original LVIA. The baseline description of visual character and analysis of effects can be found starting at section 4.116. The effects on viewpoints is summarised in Table 4.2 of the original LVIA;
- Identify and assess any significant cumulative landscape and visual effects resulting from the increase in proposed turbine dimensions. The assessment of cumulative landscape effects are described starting at section 4.205 of the original LVIA. The assessment of cumulative visual effects arising from existing wind farms is included in the description of effects on viewpoints starting at section 4.127 and cumulative visual effects are described in more detail from section 4.209.

2.6 The following figures in Table 1 (below), have been produced to accompany this Addendum to provide a visual comparison between the consented and proposed schemes:

Table 1	
Figures 4.15 - 4.41	Comparative wirelines from the 27 viewpoints

	presented in the original LVIA
Figures 4.17, 20, 21, 24 & 27	Revised photomontages from viewpoints 3, 6, 7, 10 & 13 which were deemed in the original LVIA to experience significant visual effects and 13 were considered to be “critical viewpoints” by Causeway Coast & Glens BC These are presented on the same pages as the comparative wirelines on the relevant figures
Figure 4.2	Comparative Zone of Theoretical Visibility, Consented versus proposed hub height

LVIA Methodology

2.7 The methodology employed in the original LVIA (2018) adhered to the best practice and policy guidance that was current at that time and can be found starting at section 6.17 of the original LVIA. This best practice and policy guidance is unchanged with the exception of an updated Landscape Institute publication relating to visualisations (see subsequent paragraph) and is still applicable to the assessment of the proposed wind farm.

[Landscape Institute \(September 2019\) ‘Technical Guidance Note 06/19: Visual Representation of Development Proposals’](#)

2.8 This guidance updates 'Advice Note 01/11: Photography and photomontage in landscape and visual impact assessment' and maintains the same aims to help landscape professionals, planning officers and other stakeholders to select types of visualisations which are appropriate to the circumstances in which they will be used. It provides guidance as to appropriate techniques to capture site photography and produce appropriate visualisations for all types of development but recognises that, for some types of development, including wind energy, that more specific guidance may also be appropriate. In particular, this Technical

Guidance Note is broadly consistent with and supportive of Scottish Natural Heritage guidance that informed the original LVIA in 2018.

Planning Policy

- 2.9 It is noted that changes in planning policy and updates to development plans are expected to take place over the coming months and years as Planning Policy Statements, supplementary guidance and existing Development Plans become superseded by emerging Local Development Plans. These must be primarily informed by the SPPS, which was the primary policy guidance considered in the original LVIA. Causeway Coast and Glens Council are due to publish a Draft Plan Strategy for the Local Development Plan in spring/ Summer 2022 which will set out the Council's strategic intentions for development within the Borough. Representations submitted in response to this will then be considered by the Council and forwarded to the DfI for Independent Examination to determine whether or not the Plan satisfies statutory requirements. However, this has yet to take place and for the purpose of this ES the Development Plan process is considered to be at too early a stage to be afforded weight. The SPPS notes that decisions should continue to be taken in line with the SPPS and relevant PPSs until such time as a Plan Strategy for the whole Council area has been adopted and the anticipated timescale for this is summer 2028.

Baseline Characteristics of the Study Area

- 2.10 Following a review of the original LVIA and a site assessment of the 30 km Study Area, no changes to the baseline landscape and visual characteristics of the Study Area have been identified that would materially affect the conclusions of the original LVIA. Therefore, the re-assessment of landscape, visual and cumulative effects in this Addendum is based on the baseline established in the original LVIA.

Effects on Landscape Character

- 2.11 The original LVIA identified the site's location within the Binevenagh Area of Outstanding Natural Beauty (AONB) and Landscape Character Area 36:

Binevenagh. It analysed the sensitivity of these areas to wind energy development with due regard to the Binevenagh AONB Management Plan and Supplementary Policy Guidance to Planning Policy Statement 18: Renewable Energy and the AONB Management Plan. Its conclusions on the nature and extent of effects that the Proposed Development would have on the AONB and Binevenagh LCA remain unaltered because the proposed turbines will be located in the same positions as the consented scheme and there have been no significant alterations to the baseline landscape character within the Study Area (refer from sections 4.85 and 4.103 onwards of the original LVIA (2018)). Furthermore, there is no proposal to alter the related infrastructure which has the benefit of planning consent.

- 2.12 The original LVIA noted that the core areas of the AONB were Binevenagh Mountain and the coast between Portstewart and Magilligan Strand with the visual contrast between these areas being one of the key characteristics of the AONB (original LVIA section 4.104). The Development would not be visible from this part of the Study Area but cognisance was taken in the original LVIA of the merits of the site in terms of its contribution to the landscape and visual character of the wider AONB. The layout and position of the Development was designed to minimise its effect on the AONB as a whole and this was achieved by locating it away from the core area containing the majority of visitor attractions and iconic landscape features.
- 2.13 The Proposed Development would also be in a location that is closely related to existing wind turbines, and that is neither highly visible from the rest of the AONB nor from other parts of the Study Area with good views to the core part of the AONB. These areas include the summits of Keady Mountain, Donald's Hill and Benbradagh. Through the iterative design process the proposed layout was refined to ensure that turbines would not be located on the summit of Keady Mountain and would not significantly affect the overall legibility or visual continuity of the Binevenagh profile. Since there is no proposal to alter the consented turbine layout, only the rotor and hub dimensions, the objectives that were achieved here would be retained with the Proposed Development.
- 2.14 In medium to long range views where the full profile of the Binevenagh range of hills can be appreciated the Development would form a small part of extensive, often 360° views and would be located within a lower saddle of land between

taller summits and in close proximity to the Dunbeg cluster of wind farms. Rigged Hill wind farm was noted in the original LVIA as being a well-established element of the landscape character in this area and occupying a more prominent location on a higher plateau to the south. In the intervening period Rigged Hill Re-Power wind farm has been consented which would replace the existing 10-turbine wind farm with blade tip heights of 56.5 m with 7 turbines with blade tips of 137 m which would be substantially more prominent.

Visual Effects

- 2.15 The original LVIA made an assessment of visual effects across the 30 km Study Area in general, including the production and analysis of Zone of Theoretical Visibility diagrams (ZTVs) using blade tip height scenarios to illustrate the theoretical levels of visibility based on bare-ground topography without land cover elements such as vegetation. ZTVs can therefore be regarded as providing a useful indication of the highest level of (theoretical) visibility, the analysis of which can then be refined by site assessment in order to understand the effects of vegetation, minor variations in topography, built development, etc. on views.
- 2.16 The proposed turbines would be located in the same positions as the consented scheme and there is no proposal to alter the consented blade tip height. Therefore, the levels of visibility illustrated in the original LVIA ZTV figures (original LVIA Figures 4.6 - 4.8) would remain unchanged. Only changes to the rotor diameter and hub height dimensions are proposed. Therefore, this Addendum includes a comparative hub height ZTV to illustrate differences in hub height visibility between the consented scheme (100 m hub height) and proposed scheme (91.4 m hub). This is illustrated by Figure 4.42 which shows that the proposed 8.6 m decrease in hub height would equate to an overall decrease in hub height visibility across the 30 km Study Area of 1.33 %. These areas of decreased visibility would be located to the south and east of the Study Area approximately 5 - 12 km from the Proposed Development and in the sea to the north of Castlerock, approximately 10 - 30 km from the Proposed Development. The scale of the proposed decrease is too small to be easily discernible even at distances of 5 km and would not alter the overall nature of visual effects arising from the Proposed Development.

- 2.17 Comparison of the consented and proposed turbine dimensions is also illustrated in updated versions of original LVIA Viewpoint Figures 4.15 - 4.41 (the numbering of figures reflects that used in the original LVIA for ease of reference). These are re-presented as part of this Addendum to include comparative wirelines for all 27 Viewpoints that were analysed in the original LVIA. They illustrate the difference in visibility between the consented and proposed turbine dimensions alongside any known updates to the cumulative baseline (see paragraph 2.20 below). These 27 viewpoints were originally selected to represent typically occurring views within the Study Area, views experienced by sensitive visual receptors, and also views from specific locations that merited inclusion by virtue of their contribution to the landscape and visual qualities of the Study Area (original LVIA from section 4.127). Three of these viewpoints were deemed to experience a significant visual effect resulting from the Development (Viewpoints 3, 10 and 14).
- 2.18 Viewpoints 3 and 10 along with Viewpoints 6, 7 and 13 were considered to be “critical viewpoints” by Causeway Coast & Glens BC as per their Development Control Officers Report dated 23rd September 2020 (see Figures 4.17, 20, 21, 24 and 27) and therefore updated photomontages of these viewpoints have been prepared to provide an indication of changes in the appearance of the Proposed Development from several locations within 10 km of the Proposed Development. Viewpoint 14 was not included as a critical viewpoint in the Council’s report. A comparative wireline has been produced for Viewpoint 14 and it is further described in relation to cumulative effects (see paragraph 2.20) but a revised photomontage has not been produced.
- 2.19 These updated photomontages illustrate that the proposed changes to the turbine rotor and hub height dimensions would not substantially alter the levels of visibility or the appearance of the proposed turbines and are unlikely to be easily discernible. The detailed analysis of these viewpoints provided in the original LVIA (starting from paragraph 4.130) remain applicable and are not repeated here..

Cumulative Effects

- 2.20 There were a total of 36 wind farms considered to be part of the Cumulative Baseline in this original LVIA, of which 20 were existing, 12 were consented and 4 were proposed (full details were provided in the original LVIA (2018) Vol 4 Technical Appendix 4.5). It also included three existing or consented single turbines which were located within 5 km of the Development and which were of a comparable size to commercial wind turbines (with an overall minimum blade tip height of 50 m).
- 2.21 In many instances other wind farms in the cumulative baseline were found to be located in visually and / or physically distinct clusters, reflecting the type of landscapes, ground conditions and wind speeds that were favourable for wind energy development and also the general principle that continues to be implemented by planning authorities to consolidate and group new and established developments together as a means to achieve sustainable development and mitigate potential adverse cumulative effects on scenic landscapes which can result from a sporadic approach to siting new developments (see Table 4.3 and the Council's Discussion Paper 4: Landscape Character referenced in footnote to paragraph 4.87 of the original LVIA 2018). This continues to be the case.
- 2.22 There have been some changes to the cumulative baseline since the original LVIA and an updated version of Technical Appendix 4.5.1 is included in this Addendum (see appendix 2). The changes are listed in the bullet points below and are illustrated on the comparative wirelines included in Figures 4.15 - 4.41.
- 2.23 In the original LVIA only Viewpoint 14 was deemed to experience significant cumulative visual effects. However, it was noted that this level of effect would be limited to the area in immediate proximity to this Viewpoint and would not be experienced from other roads in the area. Furthermore, Viewpoint 14 was not regarded as a "critical viewpoints" by Causeway Coast & Glens BC (see paragraph 2.14 above) and all policy documents (the SPPS, PPS 18 and its best practice and supplementary guidance) recognise that wind farms may be prominent elements in close range views but that this does not necessarily equate to unacceptable development. The cumulative baseline that would be visible at Viewpoint 14 is unchanged bar the consent of Dunmore Extension. A revised photomontage for Viewpoint 14 has not been produced for these reasons.
- 2.24 A summary of changes to the cumulative baseline since the original LVIA follows:

- Three wind farms have changed status from consented to existing: Craiggore, which is located just under 8 km from the Proposed Development, and Evishagaran which is located at a distance of approximately 14.5 km, were originally consented with blade tip heights of 125 m tip but were subsequently consented and constructed with 140 m tip turbines; Glenbuck II, located just under 28 km from the Proposed Development, has also been constructed.
 - Two wind farms in the original baseline have changed status from proposed to consented: Corlacky Hill and Dunmore Extension;
 - Two wind farms have been withdrawn: Monnaboy Extension, a two-turbine wind farm which was in-planning at the time of the original LVIA with blade tip heights of 121.2 m located approximately 19 km from the Proposed Development; and Upper Ballyrogan which was a 5-turbine scheme with 120 m blade tips located approximately 9 km from the Proposed Development;
 - There is a re-powering scheme proposed to replace the long-standing 10-turbine wind farm at Rigged Hill which has blade tip heights of 56.5 m with a 7-turbine scheme with blade tip heights of 137 m (see paragraph 2.14)
- 2.25 Changes to the cumulative baseline do not substantially alter the cumulative baseline and the conclusions of the cumulative assessment that was carried out in the original LVIA both in terms of landscape and visual effects is still deemed to be appropriate. The changes to the cumulative baseline do highlight a continuing trend to develop turbines with larger dimensions and these are now visible in several other parts of the Study Area including several wind farms in relatively close proximity to the Proposed Development.

Mitigation

- 2.26 There are no proposed changes to the mitigation measures set out in the original LVIA (2018) from section 4.219. These are still deemed to be appropriate.

Conclusion

- 2.27 This Addendum firstly sought to establish whether there had been any changes to the baseline landscape and visual characteristics of the 30km Study Area. This was done via a desktop review of the baseline information that formed part of the original LVIA (2018), a review of policy and guidance, and a reassessment of site conditions. No significant changes to the landscape or visual character of the 30 km Study Area were identified during this process. Therefore, the original LVIA (2018) was deemed to provide an appropriate baseline for this LVIA Addendum.
- 2.28 This Addendum then sought to identify and assess any significant landscape, visual and cumulative effects resulting from the proposed change in turbine dimensions. This was done via a thorough review of the original LVIA and preparation of a series of comparative visualisations.
- 2.29 The comparative ZTV diagram illustrates that there would be a negligible decrease in the theoretical hub height visibility of the wind farm resulting from the proposed decrease in proposed hub height. However, this would be of such a small magnitude that it would be indiscernible. There would be no change in overall visibility because there would be no change to the overall blade tip height of the turbines.
- 2.30 Comparative wirelines were produced from all 27 viewpoints included in the original LVIA (2018). These also illustrate that the proposed changes to rotor and hub height turbine dimensions are unlikely to be discernible.
- 2.31 Overall, proposed changes in rotor and hub height would not alter any of the landscape of visual effects on this Study Area which formed the basis for the original scheme being consented. The original LVIA concluded that the Development's location within the same part of the landscape as the Dunbeg cluster, and the other strong human factors that influenced this landscape character meant that there would be No Significant landscape effects resulting from the Development. The Development was generally deemed to have No Significant effects on visual character for similar reasons. Wind energy development was a prominent visual element in all parts of the Study Area and the Development would have a negligible incremental effect on the manner in which wind energy development was perceived generally across the Study Area. Of the 27 viewpoints that were analysed in the original LVIA, only three were deemed to experience a significant visual effect resulting from the Development.

Taking this into account, and that no significant landscape effects were identified, the original LVIA concluded that the Development was acceptable in both landscape and visual terms, and this was corroborated by Causeway Coast & Glens BC in granting the original permission in December 2020. No significant changes to the landscape or visual character of the 30 km Study Area were identified during this process and therefore there is no alteration to the overall conclusion of effects. Therefore, this Addendum concludes that Dunbeg South Wind Farm would remain as an acceptable development in this location.

Chapter 3 Shadow Flicker

Introduction

- 3.1 In sunny conditions, any shadow cast by a wind turbine will mirror the movement of the rotor. When the sun is high, any shadows will be confined to the wind farm area but when the sun sinks to a lower azimuth moving shadows can be cast further afield and potentially over adjacent properties. Shadow flicker is generally not a disturbance in the open as light outdoors is reflected from all directions. The possibility of disturbance is greater for occupants of buildings when the moving shadow is cast over an open door or window, since the light source is more directional.
- 3.2 Whether shadow flicker is a disturbance depends upon the observer's distance from the turbine, the direction of the dwelling and the orientation of its windows and doors from the wind farm, the frequency of the flicker and the duration of the effect, either on any one occasion or averaged over a year.
- 3.3 In any event and irrespective of distance from the turbines, the flickering frequency will depend upon the rate of rotation and the number of blades. It has been recommended (Clarke, 1991) that the critical frequency should not be above 2.5 Hz, which for a three bladed turbine is equivalent to a rotational speed of 50 rpm. The proposed turbines at Dunbeg South Wind Farm would rotate at a maximum of approximately 17.5 rpm, well below this threshold.

Reflected Light

- 3.4 A related visual effect to shadow flicker is that of reflected light. Theoretically, should light be reflected off a rotating turbine blade onto an observer then a stroboscopic effect would be experienced. In practice a number of factors limit the severity of the phenomenon and there are no known reports of reflected light being a significant problem at other wind farms.
- 3.5 Firstly, wind turbines have a semi-matt surface finish which means that they do not reflect light as strongly as materials such as glass or polished vehicle bodies.

- 3.6 Secondly, due to the convex surfaces found on a turbine, light will generally be reflected in a divergent manner.
- 3.7 Thirdly, the variability in flow within a wind farm results in slightly differing orientation of rotor directions, therefore it is unlikely that an observer will experience simultaneous reflections from a number of turbines.
- 3.8 Fourthly, as with shadow flicker, certain weather conditions and solar positions are required before an observer would experience the phenomenon.
- 3.9 It is therefore concluded that Dunbeg South Wind Farm will not cause a material reduction to amenity owing to reflected light.

Policy and Guidance

- 3.10 Whilst there is no specific standard for the assessment of shadow flicker in the UK, planning requirements of shadow flicker are contained within Planning Policy Statement 18 (RE 1) “Renewable Energy” (2009) which states: “... *the development will not cause significant harm to the safety or amenity of any sensitive receptors (including future occupants of committed developments) arising from noise; shadow flicker; ice throw; and reflected light;*”
- 3.11 The Best Practice Guidance to Planning Policy Statement 18 “Renewable Energy” (2009) further describes that,
- 3.12 “...*at distances greater than 10 rotor diameters from a turbine, the potential for shadow flicker is very low*”.

Methodology

- 3.13 An analysis of shadow flicker throughout the year from Dunbeg South Wind Farm was carried out, taking into account the behaviour of the sun, the local topography and the turbine layout and dimensions¹. The analysis was performed using a turbine layout consisting of 9 turbines, each with a maximum tip height of 149.9 m and a maximum rotor diameter of 117m.

¹ Infrastructure Drawing 03219-RES-LAY-DR-PT-001

- 3.14 In accordance with The Best Practice Guidance to Planning Policy Statement 18 “Renewable Energy” (2009), as described above, analysis would be performed on all occupied houses within 1170m (ten rotor diameters) of any proposed wind turbine. There are no inhabited houses within ten rotor diameters of any of the proposed turbines.

Results

- 3.15 With due reference to The Best Practice Guidance to Planning Policy Statement 18 “Renewable Energy” (2009) there are no inhabited houses within ten rotor diameters of the wind farm and thus no flicker is predicted.
- 3.16 It is therefore concluded that Dunbeg South Wind Farm will not cause a material reduction to residential amenity owing to shadow flicker. The closest property within the vicinity of the windfarm is located 1239m from the nearest turbine location.

Mitigation

- 3.17 Mitigation measures can be incorporated into the operation of the wind farm to reduce the instance of shadow flicker. Mitigation measures range from planting tree belts between the affected dwelling and the responsible turbine(s) or installing blinds at the affected dwellings. When there is extreme nuisance, mitigation could be to the extreme of shutting down individual turbines during periods when shadow flicker could theoretically occur.
- 3.18 As this assessment has illustrated that no instances of shadow flicker, mitigation is not expected to be required.

References

- [1] The Scottish Office (2002), Planning Advice Note 45
- [2] Planning Policy Statement PPS22 (2004)
- [3] Clarke A.D (1991), A case of shadow flicker/flashing: assessment and solution, Open University, Milton Keynes

- [4] Clarke, A.D (1995), Assessment of Proposed Wind energy Project at Meenacahan, Donegal, Ireland, for Shadow Flicker, Report for B9 Energy Services Ltd
- [5] Cloud Cover Statistics from the IPCC Data Distribution Centre: Visualisation Pages (2004), <http://www.ipcc-data.org/java/visualisation.html>
- [6] Planning Policy Statement 18 “Renewable Energy” (including Best Practice Guidance to Planning Policy Statement 18) August 2009

Chapter 4 Noise assessment

- 4.1 The Decision Notice granting consent for Dunbeg South wind farm (LA01/2018/0200/F) contains a set of Planning Conditions (see appendix x). The Planning Conditions specify operational noise limits which the wind farm would be required to meet at nearby residential properties. The applicable noise limits are detailed in Planning Condition 14 of the Decision Notice issued by Causeway Coast & Glens Borough Council.
- 4.2 For an increased rotor diameter of up to 117 m, Dunbeg South wind farm would be operated to ensure that the limits contained within the previous consent, as described above, are met. Candidate machines of these dimensions can meet the currently consented noise limits by operating normally or in noise reduced mode, whereby the rotational speed of the blades is altered in a trade-off between power production and acoustic emission, as necessary.
- 4.3 The approach defined above is the same as that which would be followed in the absence of a change in rotor diameter if a turbine type other than the candidate machine on which the acoustic assessment submitted in the original Environmental Statement (2018) was based is deployed.
- 4.4 In summary, there would be no additional acoustic impact at nearby properties due to the application to increase the rotor diameter of the turbines at the consented Dunbeg South wind farm to up to 117 m, as the modified scheme would be operated in such a way that the noise limits specified in the current Decision Notice are achieved.

Chapter 5 Pre-Application Community Consultation (PACC) Report

Introduction

- 5.1 This Pre-Application Community Consultation (PACC) Report outlines how RES has communicated with the local community to inform them about the proposed rotor diameter amendment to the consented Dunbeg South Wind Farm, located in the townlands The Gortcorbies, located approximately 6km North-East of Limavady, County Londonderry. It explains how and when the community was consulted before the planning application was submitted to the Causeway Coast & Glens Council and how this consultation has shaped the development of the proposed amendment.
- 5.2 On 7th February 2022, RES submitted a Proposal of Application Notice (Form PAN 1) (see appendix 3) to Causeway Coast & Glens Planning Department outlining the form of consultation which RES proposed to undertake. This PACC Report summarises the consultation which has taken place in accordance with the Planning Act (NI) 2011, Section 27 & 28, Schedule 2 and Regulation 5 of the Planning (Development Management) Regulations (NI) 2015 and all other relevant guidance, including DoE Information leaflet 16 on Pre-Application Community Consultation Guidance June 2014 and Development Management Practice Note 10 on Pre-Application Community Consultation (and Pre-Application Discussions) April 2015.

RES' Commitment to Consultation

- 5.3 RES is the world's largest independent renewable energy company. At the forefront of the industry for 40 years, RES has delivered more than 22GW of renewable energy projects across the globe and supports an operational asset portfolio exceeding 7.5GW worldwide for a large client base. RES is active in 10 countries working across onshore and offshore wind, solar, energy storage and transmission and distribution.
- 5.4 RES has developed 22 onshore wind farms in Northern Ireland totalling 246MW and operates over 88.7MW of wind capacity across Northern Ireland, has secured

planning permission for a further 109.9MW awaiting construction and has 80MW in the planning system.

- 5.5 RES is committed to finding effective and appropriate ways of consulting with all its stakeholders, including local residents and community organisations, and believes that the views of local people are an integral part of the development process. We want to be good neighbours to the communities that host our renewable energy projects and will listen to and address questions or concerns that interested parties might have. A comprehensive process that engages with local people and stakeholders at an early stage allows an informed debate that helps us identify issues of potential concern, explore solutions, and design a project that will be welcomed as a positive asset by the local community.

Statutory requirements and best practice guidance

- 5.6 The Planning Act (NI) 2011 has made pre-application consultation a statutory requirement for major developments. Section 27 of the Act places a statutory duty on applicants of developments defined as ‘Major’ in accordance with the criteria outlined in Schedule 2 of the Planning (Development Management) Regulations (NI) 2015, to consult the community prior to submitting an application.
- 5.7 The legislation requires developers to submit a ‘Proposal of Application Notice (PAN)’ 12 weeks before submitting a formal planning application for ‘Major’ applications. The PAN explains how a prospective applicant will engage with the local community and sets out a timetable for the engagement. Once a planning authority receives a PAN, they have 21 days to consider the proposal. RES submitted a PAN to Causeway Coast & Glens Planning Department and was received by said Department on 7th February 2022. On 15th February 2022, RES received a letter from Causeway Coast & Glens Planning Department stating that they had considered the PAN and found that it contained sufficient information with regards to the suggested community consultation measures, it was therefore confirmed that complied with Section 27 of the Planning Act (NI) 2011.
- 5.8 At the time of submission of the PAN, RES made an assumption that due to the increased megawatt output associated with the change to the rotor diameter size of the turbines, that the submission may be referred to DFI as it exceeded the

30MW threshold at which the project is categorized as ‘regionally significant’ as per planning guidance, and therefore submitted a Section 26 to DFI. As per assumption, the Causeway Coast and Glens Borough council referred the application to DFI due to the increased power capability of the scheme. On the 26th March 2022, RES received feedback from DFI stating that the Department was of the opinion that the development would not, if carried out, be of significance to the whole or a substantial part of Northern Ireland or have significant effects outside Northern Ireland, or involve a substantial departure from the local development plan for the area to which it relates.

- 5.9 The guidance suggests that a period of at least 12 weeks should be allowed to undertake the community consultation before submission of an application, and that the pre-application consultation should include a least one public event.
- 5.10 The guidance also suggests a dedicated website as suitable channel of communication.

Consultation Methodology

- 5.11 The purpose of this pre-application online consultation is to improve where possible the quality of the proposed planning application by considering public opinions and addressing any issues raised by stakeholders. It is also intended that any interested stakeholders had access to any up-to-date and accurate information regarding the proposal and that they had the opportunity to provide feedback that could be considered prior to the proposed planning application being finalised and submitted.

Consultation

- 5.12 RES identified a range of potential stakeholders that may be interested in the proposed amendment, these included:
- Landowners involved in the Dunbeg South Wind Farm,
 - Members of the public in the local area,

- Locally elected political representatives (Limavady DEA of Causeway Coast and Glens in the East Londonderry constituency).

Consultation which took place : Online Public Information Event

- 5.13 An Online public information event was held by RES on behalf of Dunbeg South Wind farm was made available at: <http://dunbegsouth-windfarm.co.uk/> from Tuesday 29th March 2022, which provided information on the Wind farm, including contact details whereby members of the public could book an appointment to discuss the amendments to the proposed scheme between 10am - 2pm, and 4pm-8pm.
- 5.14 Information leaflets delivered to all houses within 5km, and all community groups including churches & schools within 7.5km (please see appendix 4).

Exhibition Advertising

- 5.15 In order to maximise community awareness of, and attendance at, the exhibitions RES placed a public notice advertisement containing details of the host website, date and timings of the exhibition in four local papers - the Limavady Chronicle & Northern Constitution, Ballymoney Chronicle and Coleraine Chronicle. The adverts ran in each publication. Week commencing - Monday 14th March 2022 (see Appendix 5). A subsequent advertisement was published in the same 4 Newspapers and ran in publication for 1 week, week commencing - 3rd April 2022 (See appendix 6); This advertisement was published to revise a statement which was written within the first publication. Due to the submission of the section 26 to DFI, RES had stated that the determining authority for which members of the public could make representations to, would be the Strategic Planning Directorate for Infrastructure. However, following the publication of the first advertisement, RES received feedback from DFI stating that the Department was of the opinion that the development would not, if carried out, be of significance to the whole or a substantial part of Northern Ireland or have significant effects outside Northern Ireland, or involve a substantial departure from the local development plan for the area to which it relates. Therefore, a revised advertisement was published by

RES following this correspondence, stating that the determining authority would be Causeway Coast and Glens Borough Council and not DFI as initially thought.

Councilor Engagement

- 5.16 RES sent letters to all Councillors from the Limavady DEA of Causeway Coast and Glens in the East Londonderry constituency, inviting them of the date and time of the public information event (see appendix 7 as to who was notified). Each Councillor was invited to join the online exhibition and given the opportunity to book a slot to meet with RES staff in order to discuss the proposal in more in detail. Unfortunately, this offer was not taken up by any of the political representatives.

Exhibition

- 5.17 The online public exhibition took place on Tuesday 29th March 2022 between 10am - 2pm, and 4pm- 8pm. The host website was: <http://dunbegsouth-windfarm.co.uk/>. The public exhibition was open between 10am-2pm, and 4pm-8pm to enable a wide cross section of the local community and stakeholders to attend, including people returning from work.
- 5.18 RES staff members were available during the public event to discuss the proposals with members of the community who booked slots, covering a range of specialisms, including technical, construction, environmental, development and community relations.
- 5.19 The online exhibition was attended by 151 times, by 42 people, over a duration of 24 days.
- 5.20 The following information was provided on the host website, the information was downloadable for members of the public to access from the 29th March 2022 for 24 days. Presentation material included the following:
- Reference copies of the Environmental statement and approved planning drawings associated with the consented Dunbeg South Wind Farm (LA01/2018/0200/F).

- Planning proposal drawings and visualisations illustrating the proposed amendments to the hub height and rotor diameter of the consented Dunbeg South Wind Farm.
- Comparative photomontages and wirelines showing the worst-case scenario for the proposed rotor increase.
- A comparative ZTV (covering 15Km from the site which shows the potential additional visibility for the proposed amendment), this visualisation also showed the viewpoint locations where wireline assessments have been prepared for.

5.21 Attendees were able to view aspects of interest and question RES staff on a variety of issues (summarised in Table 2, Section 5.27 of this report). A Comment and enquiry forms were provided to enable attendees to leave comments and provide contact details so that RES could provide updates during the course of the project to those interested (see appendix 8).

5.22 The forms asked how people had heard about the exhibition, and allowed them to address any concerns which they may have had about the proposal:

- 1 comment form was returned via email

5.23 The following requests were received following the online public information event:

- 1 email was received from a member of the public who was having trouble accessing the online event, and 1 telephone call was received by a member of the public who had requested an emailed version of the exhibition materials (please see appendix 9 for exhibition materials). Another member of the public contacted RES, 1 week prior to the event, after receiving a leaflet he had been posted by RES informing local residents about the proposed application; the individual was curious to know if discounted energy rates would be expected if the windfarm was to proceed with the applied changes. RES responded to all 3 enquiries. The member of the public who emailed RES, gained access to the online event, and subsequently returned a comments form highlighting concerns which they had over the proposed amendments to the scheme. (Please see appendix 10)

Closing the Consultation

- 5.24 The public notice which was placed in in the Limavady Chronicle & Northern Constitution, Ballymoney Chronicle and Coleraine Chronicle along with the project leaflet stated that members of the public could make representations during the pre-application period to RES by Friday 22nd April 2022. RES' postal address was provided for receiving representations. RES received 2 emails, and 1 telephone call in which additional information regarding the proposed amendment was sought.

Website

- 5.25 The website contains project information such as site location map and details of the planning consent which has been obtained for the site. A 'Contact Us' page on the website provides various ways which the public can get in touch should they want to comment or if they require further information in relation to the proposed project.
- 5.26 An image from the website is provided in Appendix 11.
- 5.27 At all stages of the development process RES set out clearly the purpose of the consultation. Throughout the process RES also emphasised that comments made were not representations to the Department and that there would be the opportunity for representations to the Department once the planning application was submitted.

Outcomes and Responses

- 5.28 The queries/topics raised during the consultation were raised both verbally and electronically through email both before, and throughout the public event. In addition, 1 feedback questionnaire was filled in during the public exhibition. A summary of the issues raised during the consultation (both verbally and in writing), along with RES' response to each issue, can be found in the **Table 2** (below).

Table 2: Summary of queries/topics raised during the pre-application consultation	
Issue raised	RES' Response
<p>Clean Energy & Cost</p> <p>“I am pleased to see all initiatives to produce clean energy.”</p> <p>“The government in the UK are exploring discounting energy to communities near wind farms. Perhaps an initiative like this would encourage Limavady to see the benefits of ‘hosting’ a wind farm in our countryside.”</p>	<p>The member of the public contacted RES with their support about green energy, but wanted to know further information about whether or not the addition of a windfarm within their local area would provide a cost saving to those within the local area, through the integration of more sustainable energy.</p> <p>In addition to providing clean energy, wind farms are now the cheapest form of energy in the UK bar none. By producing more energy using wind farms will reduce the wholesale cost of energy in Ireland which will put downward pressure on electricity bills.</p>
<p>Technical issues- Email:</p> <p>“The links on the consultation page do not work for me on my iPhone. Is this just an Apple issue?”</p>	<p>Following this email, RES was able to provide information on an alternative method for the individual to access the site content. The website content is most obtainable through the use of a PC desktop or laptop device, rather than a smartphone or tablet.</p>
<p>Technical issues - Phone call: Enquiry about accessing the information on the Dunbeg South Online exhibition page on the Dunbeg South Windfarm</p>	<p>The member of the public had trouble accessing the information on the Dunbeg South Windfarm website. Following a telephone conversation, the individual provided an email address, and the information available on the website was</p>

<p>website located at: http://dunbegsouth-windfarm.co.uk/</p>	<p>subsequently emailed over to them.</p>
<p>“Living on the Terrydoo Road at the Ringsend road end, we are already overlooked by the rigged hill wind farm. There is an unwanted background noise that we have to now put up with and to me it has affected our enjoyment of the peacefulness of the area”</p>	<p>RES has undertaken noise assessments to determine the background noise levels in the local area and the noise levels predicted to be emitted by the Development to determine if the noise levels are acceptable in planning terms.</p> <p>The potential acoustic effects of the Development are examined in detail in the supporting information see Chapter 4: Noise</p>

Summary

- 5.29 RES believes that consultation and effective communication is paramount when developing a wind energy project.
- 5.30 Following the Statutory Requirements and Best Practice Guidance, RES has undertaken a consultation period in line with the recommended 12 weeks. RES has engaged with the local community and has received feedback from locals within the surrounding area. This PACC Report details the consultation activities undertaken. Chapter 5 sets out the comments and queries received and how we have responded.
- 5.31 RES has engaged with the local community to facilitate a constructive consultation process; this has helped us understand and address any concerns as the project is amended. Through the consultation process, we have helped the community in understanding the benefits and potential impacts of the Proposed Amendment.
- 5.32 RES is committed to being a good neighbour and will build on the pre-planning consultation in a number of ways. The company has an ‘open door’ policy that

means anyone can contact the company about the Proposed Amendment at any stage and RES will respond in a timely manner - usually within five working days. Contact details have been made available for this purpose via exchange of information on the project leaflet and the project website.

- 5.33 The project website will be updated regularly to enable people to keep up to date with the latest news about the Proposed Wind Farm Development as it progresses.

Chapter 6 Design and Access Statement

The Proposed Development

- 6.1 This Design and Access Statement has been prepared by RES Ltd in support of a full planning application for an amendment to the Rotor increase at Dunbeg South Wind Farm, hereinafter referred to as the Proposed Development, located approximately 6km N E of Limavady which are located immediately to the south of Broad Road (A37) in the Town land of Gortcorbies Co Derry/Londonderry. (Please see **Figure 1.1: Site Location**).
- 6.2 This Design and Access Statement has been prepared to accompany a proposed planning application to amend the Rotor diameter which has been consented at the Dunbeg South Wind Farm.
- 6.3 Dunbeg South Wind Farm (Planning Application No: LA01/2018/0200/F) gained planning consent on 17th December 2020 for 9 turbines (each with an overall maximum height of 149.9m above ground level) and associated infrastructure including associated external electricity transformers, underground cabling, a new created site entrance, access tracks, turning heads, crane hardstandings, control building and substation compound. During construction and commissioning there would be a number of temporary works including a construction compound with car parking, temporary parts of crane hardstanding, welfare facilities and temporary guyed meteorological masts.
- 6.4 This application seeks to amend the rotor diameter previously consented Dunbeg South Wind Farm (LA01/2018/0200/F) to include an alternative turbine model, which includes rotor diameters up to 117m. The overall tip height of the turbines will not be affected and shall remain at the previously consented 149.9m.
- 6.5 These amendments, if consented, will allow consideration of a wider range of more efficient turbine models. Planning Drawings (Please see **Figure 2.2: Turbine Elevation**) illustrates the turbine geometry of a machine which utilises a rotor diameter of up to 117m, which is the sought permission size increase.
- 6.6 No other alterations to the approved Dunbeg South Wind Farm scheme are sought. All other aspects of the development remain as per the existing planning approval. This Design and Access Statement should be read in conjunction with the original EIA for the approved planning application (LA01/2018/0200/F).
- 6.7 The proposed development is shown in **Figure 2.1: Infrastructure Layout**.

The Applicant

- 6.8 RES is the world's largest independent renewable energy company. At the forefront of the industry for 40 years, RES has delivered more than 22GW of renewable energy projects across the globe and supports an operational asset portfolio exceeding 7.5GW worldwide for a large client base. RES is active in 10 countries working across onshore and offshore wind, solar, energy storage and transmission and distribution.
- 6.9 RES has developed 22 onshore wind farms in Northern Ireland totalling 246 MW, which equates to nearly 20% of Northern Ireland's operational onshore wind capacity. RES currently operates over 88.7 MW of wind capacity across Northern Ireland, has secured planning permission for a further 109.9 MW awaiting construction and has 80 MW in the planning system.

The Requirement for a Design & Access Statement

- 6.10 This statement is provided in accordance with Section 40 (3a&b) of the Planning Act (Northern Ireland) 2011 and Article 6b of the Planning (General Development Procedure) Order (Northern Ireland) 2015, which require applications for Major Developments, or applications within a designated area and comprising a building or buildings where the floor space created exceeds 100 m², to be accompanied by a Design and Access Statement. The Proposed Development is a Major Development application.
- 6.11 The requirement for Design and Access Statements is in response to the recognised need to secure positive place making, incorporating good design and access and contributing towards the government objective of promoting sustainable development. A Design and Access Statement should:
- Explain the design principles and concepts that have been applied to the development;
 - Demonstrate the steps taken to appraise the context of the development and how the design of the development takes that context into account;
 - Explain the policy or approach adopted as to access and in particular, how the policies relating to access to, from and within the development have been taken into account;

- Demonstrate how policies relating to access in the local development plan have been taken into account and any specific issues which might affect access to the development for disabled people have been addressed;
- Describe how features which ensure access to the development for disabled people will be maintained;
- State what if any consultation has been undertaken on issues relating to access to the development and what account has been taken of the outcome of any such consultation;
- Explain how any specific issues which might affect access to the development have been addressed; and
- Explain the design principles and concepts that have been applied to take into account environmental responsibility.

6.12 This Design and Access Statement will therefore demonstrate that the Proposed Development is responsive to both its surrounding context and local development plan policies incorporating the requirements as laid out in Article 6 of the Planning (General Development Procedure) Order (Northern Ireland) 2015 and Development Management Practice Note 12 - Design and Access Statement (April 2015).

Development Context

Physical Context and Site Location

6.13 The location of the Proposed Development is shown in **Figure 1.1: Site Location**. The Site is located approx. 6km N E of Limavady which are located immediately to the south of Broad Road (A37) in the Town land of Gortcorbies Co Derry/Londonderry.

6.14 The site is currently used for agricultural use. Access is provided directly from the Broad Road where an unoccupied stone building is located. The Western site boundary is located approx. 1.2km east of Keady Hill Quarry and the eastern boundary is located approx. 400m S W of disused quarry on Broad Road which is adjacent to Springfield Forest.

6.15 The Development is located on agricultural land on the north-facing slope of Keady Mountain. It comprises 9 wind turbines with a maximum blade tip height

of 149.9 m. The proposed site is a rising undulating upland area of rough grazing land located on the northern slope of Keady Mountain. It forms one side of a broad saddle of land which sits around the Curly River corridor between Keady and Binevenagh mountains. There is much evidence of human influence on the site which is scattered with indentations highlighting historic quarrying activities and a number of steep-sided drainage ditches and streams which run from the summit of Keady under the A37 road corridor and then into the Curly River which is located to the north.

Planning Policy Context

PPS 1 - General Principles (March 1998)

- 6.16 PPS 1 sets out the general principles that the Department observes in making development management decisions and also establishes the requirement to secure high quality design in new developments with a desire to ensure that the relationship with surrounding spaces is considered.

PPS 3 - Access, Movement and Parking (February 2003)

- 6.17 Policy AMP 2 states that “Planning permission will only be granted for a development proposal involving direct access, or the intensification of the use of an existing access, onto a public road where such access will not prejudice road safety or significantly inconvenience the flow of traffic”.

PPS 21 - Sustainable Development in the Countryside (June 2010)

- 6.18 Policy CTY1 states that non-residential development in the countryside will only be permitted if there are overriding reasons why the development is essential in that location. It goes on to state that renewable energy projects are acceptable in the countryside with the proposed buildings in this instance

required for the operation of the Proposed Wind Farm Development. The policy also requires that appropriate proposals for drainage and access are included.

6.19 Policy CTY14 states that a new building in the countryside will be unacceptable where it

- Is unduly prominent in the landscape; or
- Results in suburban style development; or
- It does not respect traditional patterns or settlement; or
- It creates or adds ribbon development; or
- The impact of ancillary works would damage the rural character.

Planning Strategy for Rural Northern Ireland

6.20 Policy DES 4 Areas of Outstanding Natural Beauty requires that development proposals within an AONB should be sensitive to the distinctive character of the area. In applying this, account should be given to the economic and social welling being of those living within the AONB and the needs of local communities. Respect should be given to the traditional architectural styles and settlement patterns in these areas.

Building on Tradition - A sustainable Design Guide for the Northern Ireland Countryside (May 2012)

6.21 This document is intended to support PPS 21 and offer guidance on its implementation. The relevant sections are 4, relating to visual integration and 6, on new buildings in the countryside.

Local Policy

6.22 The Site falls within the Causeway Coast & Glens Council area. The relevant local development plan is the Northern Area Plan 2016. The Plan does not contain any relevant policies relating to access, however it identifies PPS 3 (summarised

earlier in this section) and DCAN 15: (2nd Edition) Vehicular Access Standards, as relevant guidance, both of which were taken into account in the design of the access to the Proposed Wind Farm Development.

Design Statement

6.23 This section addresses the design principles and concepts which have been applied to the proposed rotor diameter amendments.

Project Summary

Initial design principles for the Dunbeg South Wind Farm

6.24 The design of the Development was optimised in order to produce a layout that maximises the use of the land available for wind power generation balanced against the overall environmental impact of the development.

6.25 The following design principles were applied:

- The turbines must be separated by specific distances both perpendicular to, and in line with, the prevailing wind direction to minimise turbulent interaction between the wind turbines (i.e., wake effect). This needs to be considered to balance turbine performance with energy extraction, and to protect the lifespan of the turbines. Spacing requirements vary between turbine manufacturers and are also subject to wind conditions
- The turbines must be located at a distance sufficiently far from occupied residential property to ensure adherence to relevant noise criteria and to ensure that shadow flicker impacts are minimised
- The turbines should be located in order to avoid and/or minimize potential effects on environmentally sensitive features (ecology, archaeology, hydrology etc.)
- Landscape and visual design considerations should be taken into account
- Mitigation by design should be the principle method of reducing potential environmental impacts
- All site infrastructure should be designed as efficiently as possible to reduce the overall extent of development whilst maximising the renewable energy generation potential.

6.26 For the Development, the upland nature of the Site created a number of sensitivities that needed to be carefully addressed through appropriate design of the wind farm. The basis of the design process is the evaluation of the various constraints that were identified through the environmental surveying that was undertaken and consideration of landscape and visual effects. The following sections identify potential issues and outline how these have been addressed through appropriate design.

Proposed Project Summary

- 6.27 This application to amend the rotor diameter of the approved Dunbeg South Wind Farm will allow consideration of a wider range of more efficient turbine models.
- 6.28 Planning permission has already been obtained for a wind farm which comprises 9 no. turbines with a rotor diameter of 100m.
- 6.29 The turbines which are now under consideration increase the rotor diameter to up to 117m but maintain the consented tip height of 149.9m are included in **Figure 2.2** which accompanies this planning application, this figure outlines the turbine geometry of the machine model considered within this proposed application.
- 6.30 No other amendments are proposed to the already consented wind farm.

Design Strategy

Design Principles

- 6.31 The design of the Proposed Development was optimised in order to produce a layout that maximises the use of the land available for wind power generation balanced against the overall potential impacts of the development.
- 6.32 The following design principles were applied:
- The turbines must be separated by specific distances both perpendicular to, and in line with, the prevailing wind direction to minimise turbulent interaction between the wind turbines (i.e., wake effect). This needs to be considered to balance turbine performance with energy extraction, and to

protect the lifespan of the turbines. Spacing requirements vary between turbine manufacturers and are also subject to wind conditions

- The turbines must be located at a distance sufficiently far from occupied residential property to ensure adherence to relevant noise criteria and to ensure that shadow flicker impacts are minimised
- The turbines area located in order to avoid and/or minimise potential effects on environmentally sensitive features
- Landscape and visual design considerations should be taken into account
- Mitigation by design should be the principle method of reducing potential environmental impacts
- All site infrastructure should be designed as efficiently as possible to reduce the overall extent of development whilst maximising the renewable energy generation potential.

Community Consultation

6.33 A pre-application consultation report has been prepared to comply with the statutory requirements as detailed in Section 28 of the Planning Act (NI) 2011. The report presents a concise and thorough description and assessment of the community consultation activities which has taken place in relation to the proposed rotor diameter amendments to the consented Dunbeg South Wind Farm (LA01/2018/0200/F) and accompanies this planning application.

6.34 No alterations to the now proposed rotor diameter amendment were requested by stakeholders or attendees from the online public information event or in the intervening time leading up to the planning application submission.

Landscape & Visual

6.35 The initial approach to landscape and visual affects sought to establish whether there had been any changes to the baseline landscape and visual characteristics of the 30km Study Area. No significant changes to the landscape or visual character of the 30 km Study Area were identified during this process.

Therefore, the original LVIA was deemed to provide an appropriate baseline for this LVIA Addendum.

- 6.36 The new LVIA report then sought to identify and assess any significant landscape, visual and cumulative effects resulting from the proposed increase in turbine dimensions. The comparative ZTV diagram illustrated that there would be negligible increases in the theoretical visibility of the wind farm resulting from the proposed increase to the increased rotor diameter.
- 6.37 These 27 viewpoints were originally selected to represent typically occurring views within the Study Area, views experienced by sensitive visual receptors, and also views from specific locations that merited inclusion by virtue of their contribution to the landscape and visual qualities of the Study Area (original LVIA from section 4.127). Three of these viewpoints were deemed to experience a significant visual effect resulting from the Development (Viewpoints 3, 10 and 14). Viewpoints 3 and 10 along with Viewpoints 6, 7 and 13 were considered to be “critical viewpoints” by Causeway Coast & Glens BC as per their Development Control Officers Report dated 23rd September 2020 (see Figures 4.17, 20, 21, 24 and 27) and therefore updated photomontages of these viewpoints have been prepared to provide an indication of changes in the appearance of the Proposed Development from several locations within 10 km of the Proposed Development. Viewpoint 14 was not included as a critical viewpoint in the Council’s report.
- 6.38 Overall, the increase in proposed rotor diameters is not judged to significantly alter any of the landscape of visual effects on this Study Area which formed the basis for the original Dunbeg South scheme being consented.

Summary - Final Design

- 6.39 The final design for the proposed rotor increase amendment has taken into account various considerations which include planning, environmental and technical elements. The proposal has ensured that minimal changes have been made to the already consented wind farm scheme which has the benefit of planning consent (LA01/2018/0200/F) as turbine locations and all ancillary infrastructure is to remain as per the original planning consent.

- 6.40 This application includes an alternative turbine model, which is considered to be more productive in terms of capacity and yield production and are more efficient than the model and dimensions which have already been approved.
- 6.41 The alternative turbine model which is being considered in this planning application has been assessed in terms of potential visual and landscape impact, noise impact and shadow flicker.

Access Statement

- 6.42 All access to the site and within the site has been agreed in association with the approved Dunbeg South Wind Farm (LA01/2018/0200/F). Approval of the now proposed rotor diameter increase will not require any alteration or amendment to the current access provision and agreements.

Initial consideration for the Dunbeg South Wind Farm

- 6.43 The following key considerations were taken into account during the design and assessment of access arrangements for the Dunbeg South Wind Farm, including all relevant policy and guidance:
- Access routes for abnormal indivisible loads (AIL), normal construction traffic and associated road improvements
 - The type and volume of traffic generated by the Proposed Wind Farm Development
 - Identification of sensitive/critical locations along the delivery route
 - Site entrance
 - Site Tracks
 - Disability Access
 - Assessment of construction, operation and decommissioning traffic impacts
 - Outline of suitable mitigation measures and the evaluation of residual impacts
 - Cumulative impact of surrounding consented and proposed developments
 - Legislation and policy
 - DOE - Planning Policy Statement 3 - Access, Movement and Parking (2005)

- DOE - Planning Policy Statement 18: Renewable Energy (2009)
- DOE - Best Practice Guidance to Planning Policy Statement 18 'Renewable Energy' (2009)
- IEMA - Guidelines for the Environmental Assessment of Road Traffic (1993)

Sustainability

- 6.44 Sustainable design refers to the selection of an appropriate site for a particular development whilst ensuring that the architectural style is suitable for the site, so that the development will not detract from the sense of place. It incorporates the use of environmentally friendly materials and construction techniques as well as resource efficiency, all of which will help to minimise environmental impact whilst conserving local character and enhancing the viability of local communities.
- 6.45 The Design Statement section of this report details how the site was selected as appropriate and describes how the layout of the Proposed rotor diameter amendment has been carefully designed in order to minimise environmental effects.
- 6.46 If approved, the Proposed Wind Farm Development could account for up to 37.8 MW of installed renewable electricity capacity, a material contribution to achieving Northern Ireland's Climate Bill, which has a target of 80% of electricity consumption from renewable sources by 2030. This is the equivalent of approximately 31,000 homes based on an output of 37.8 MW.²
- 6.47 Potential effects on local residents in terms of noise, shadow flicker, landscape, have been considered in the design of the Proposed rotor diameter amendment and assessed in the accompanying information.
- 6.48 RES is committed to finding effective and appropriate ways of consulting with all its stakeholders, including local residents and community organisations, and believes that the views of local people are an integral part of the development process. RES engaged early with the local community (to facilitate a constructive

² The 31,000 homes figure has been calculated by taking the predicted annual electricity generation of the site (based on RES assessments Dunbeg South has a predicted capacity factor of 35.3%) and dividing this by the annual average electricity figures from the Department of Business, Energy and Industrial Strategy (BEIS) showing that the annual UK average domestic household consumption is 3,748 kWh (Dec 2021).

consultation process which helped RES to understand and address any concerns as the project developed. A minority feedback was received from the community consultation in relation the design of the wind farm and as such no amendments to the design resulted. However, through the consultation process RES has helped the community to understand the benefits and impacts of the Proposed Development. A Pre-Application Community Consultation (PACC) Report has been submitted with this planning application.

Conclusion

- 6.49 This Design and Access Statement has presented the final design of the Proposed rotor diameter amendment. It explains the design principles and concepts that have been applied to the development, demonstrating the steps taken to appraise the context of the development and how the design of the development takes that context into account whilst ensuring adherence with all relevant policies and guidance.
- 6.50 It has explained the approach adopted for access and in particular, how the policies relating to access to, from and within the Proposed Development have been taken into account. Arrangements relating to access to the development for disabled people have been addressed. It has also outlined the consultation process and its effects on the design.
- 6.51 The approval of planning permission for the proposed rotor diameter amendment at the Consented Dunbeg South Wind farm will facilitate the installation of more efficient wind turbines making the wind farm more productive in terms of generation capacity and more efficient overall.

Figures



Figure 1.1: Site Location



**DUNBEG SOUTH
WIND FARM**

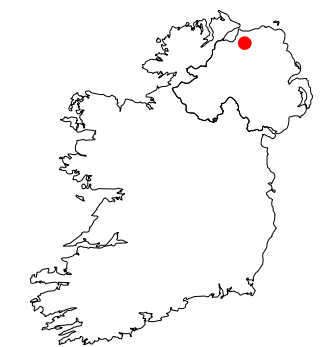
FIGURE 1.1

SITE LOCATION

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KEY

— SITE LOCATION



SITE LOCATION - NOT TO SCALE



LAYOUT DWG N/A T-LAYOUT NO. N/A

DRAWING NUMBER
03219-RES-MAP-DR-XX-001

SCALE - **1:50,000 @ A3**

**PLANNING APPLICATION
2022**

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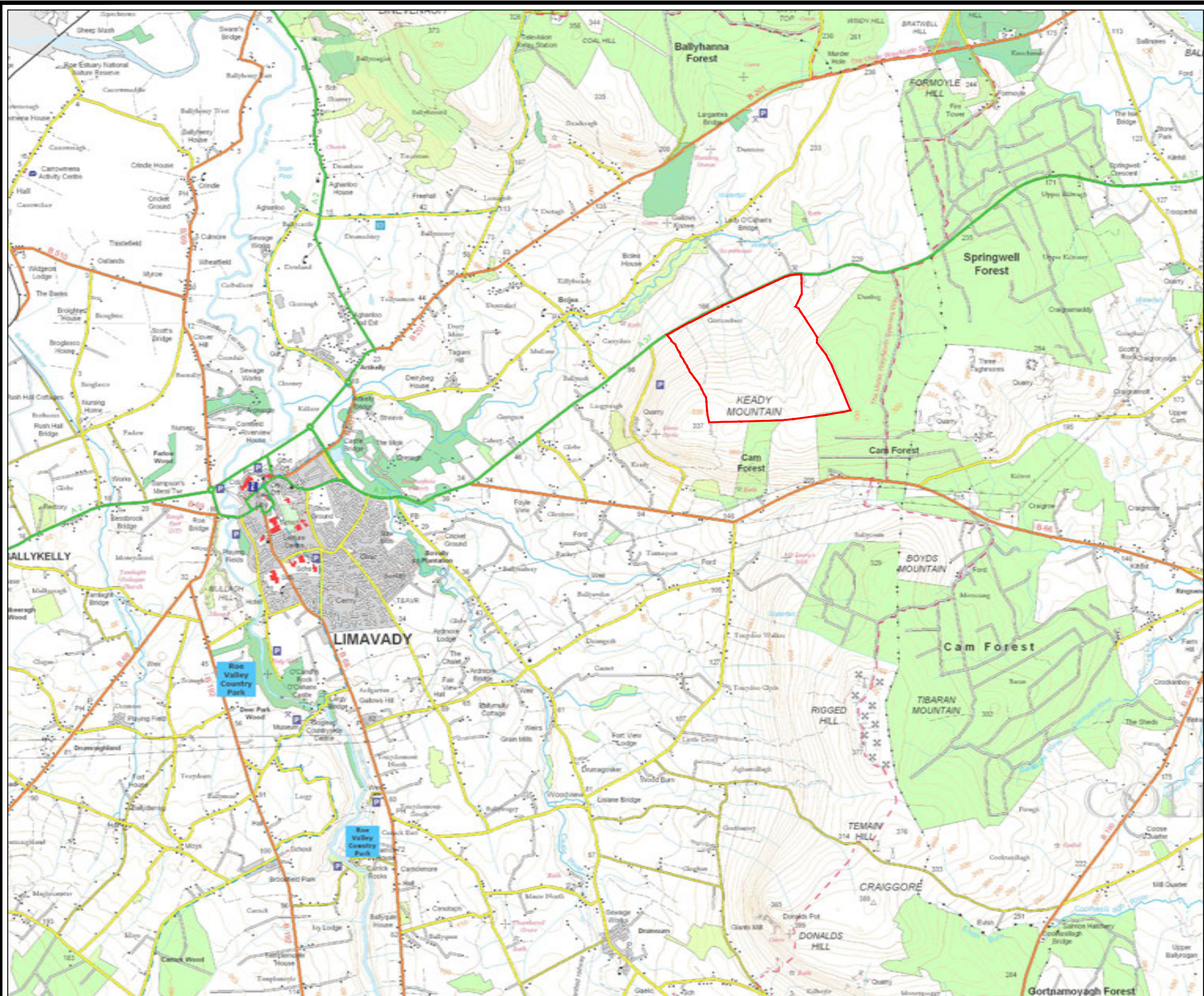




Figure 2.1: Infrastructure Layout



DUNBEG SOUTH WIND FARM

FIGURE 2.1

INFRASTRUCTURE LAYOUT

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- KEY**
- PLANNING APPLICATION BOUNDARY (INSIDE OF LINE DENOTES BOUNDARY)
 - + WIND TURBINE LOCATION
 - TURBINE MICROSITING
 - NEW SITE TRACKS
 - UPGRADED SITE TRACKS
 - WATERCOURSE CROSSING
 - CRANE HARDSTANDING AREA
■ PERMANENT
■ TEMPORARY
 - TEMPORARY CONSTRUCTION COMPOUND
 - CONTROL BUILDING & SUBSTATION COMPOUND WITH PERMANENT HARDSTANDING AREA
 - ➔ SITE ENTRANCE LOCATION



LAYOUT DWG N/A T-LAYOUT NO. N/A

DRAWING NUMBER
03219-RES-LAY-DR-PT-001

SCALE - 1:10,000 @ A3

**PLANNING APPLICATION
2022**

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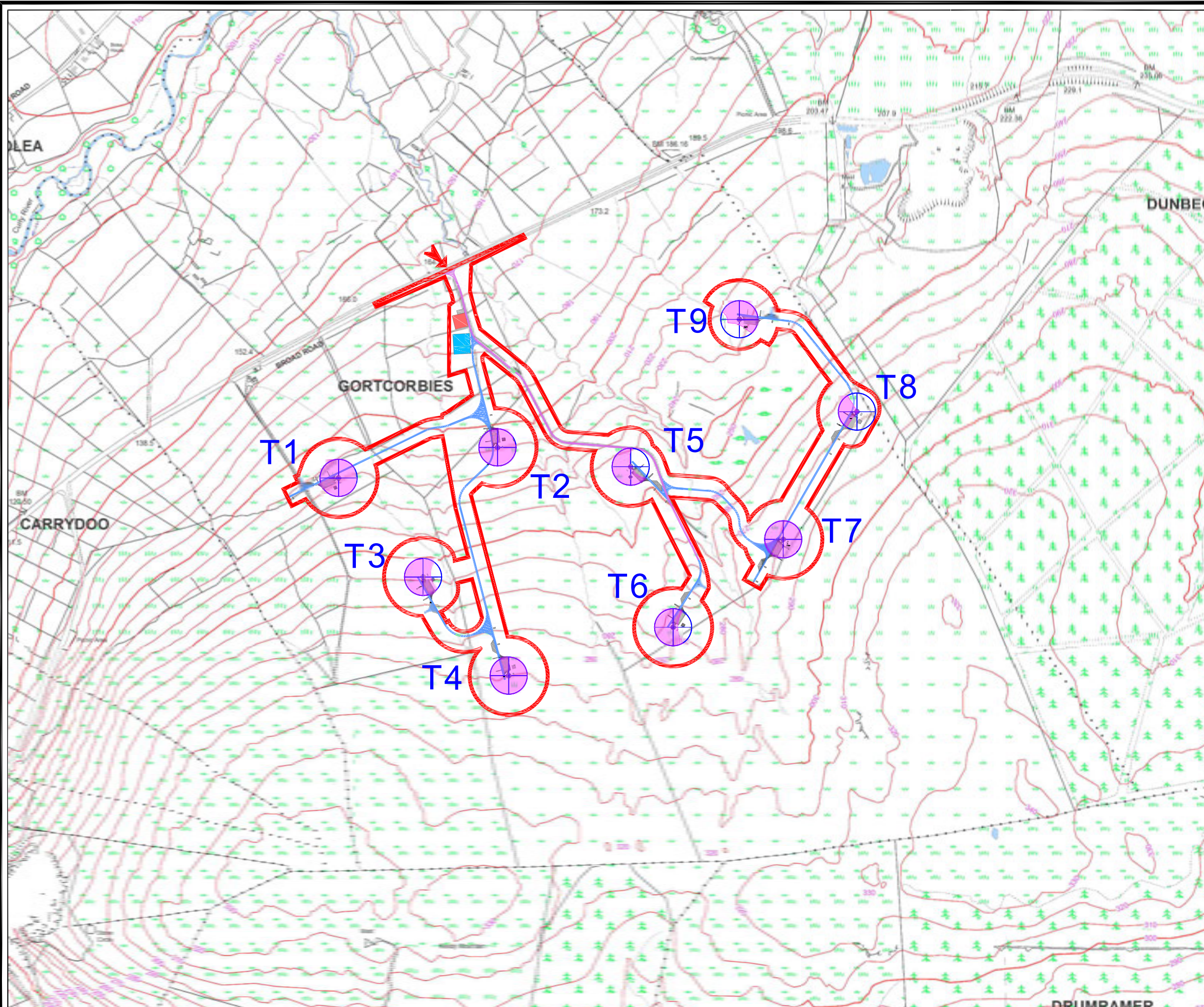




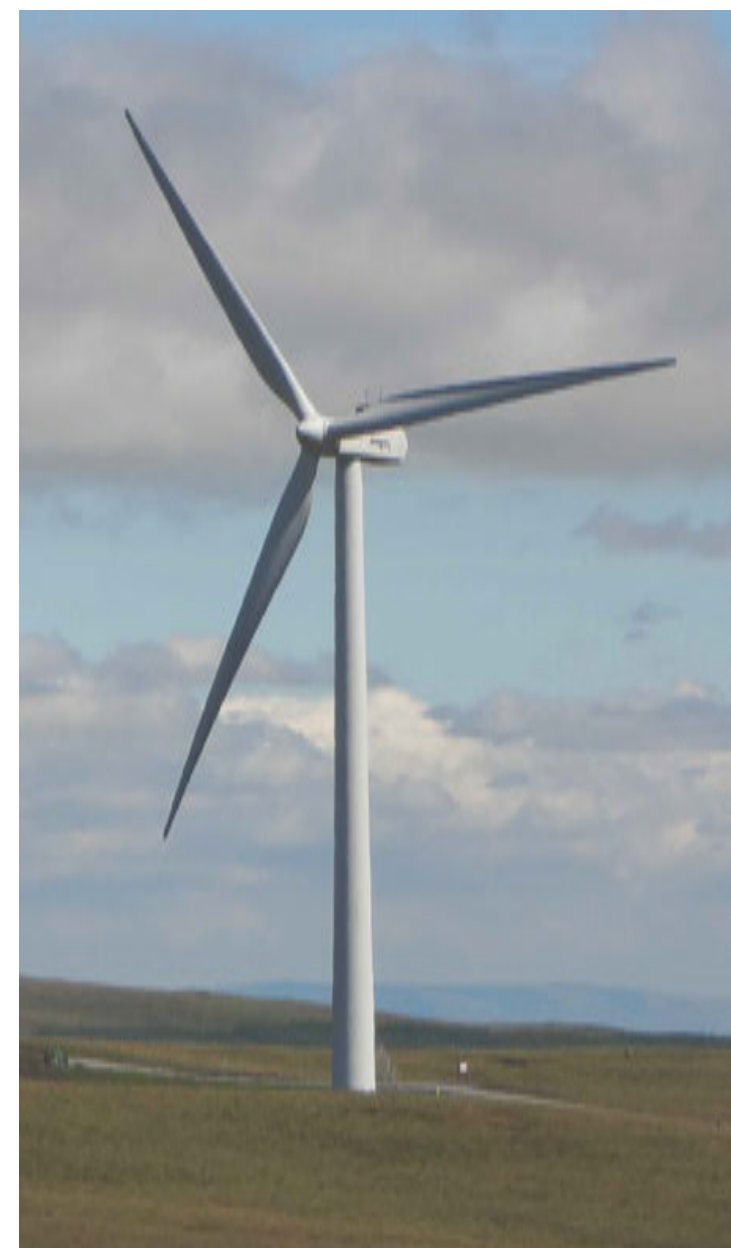
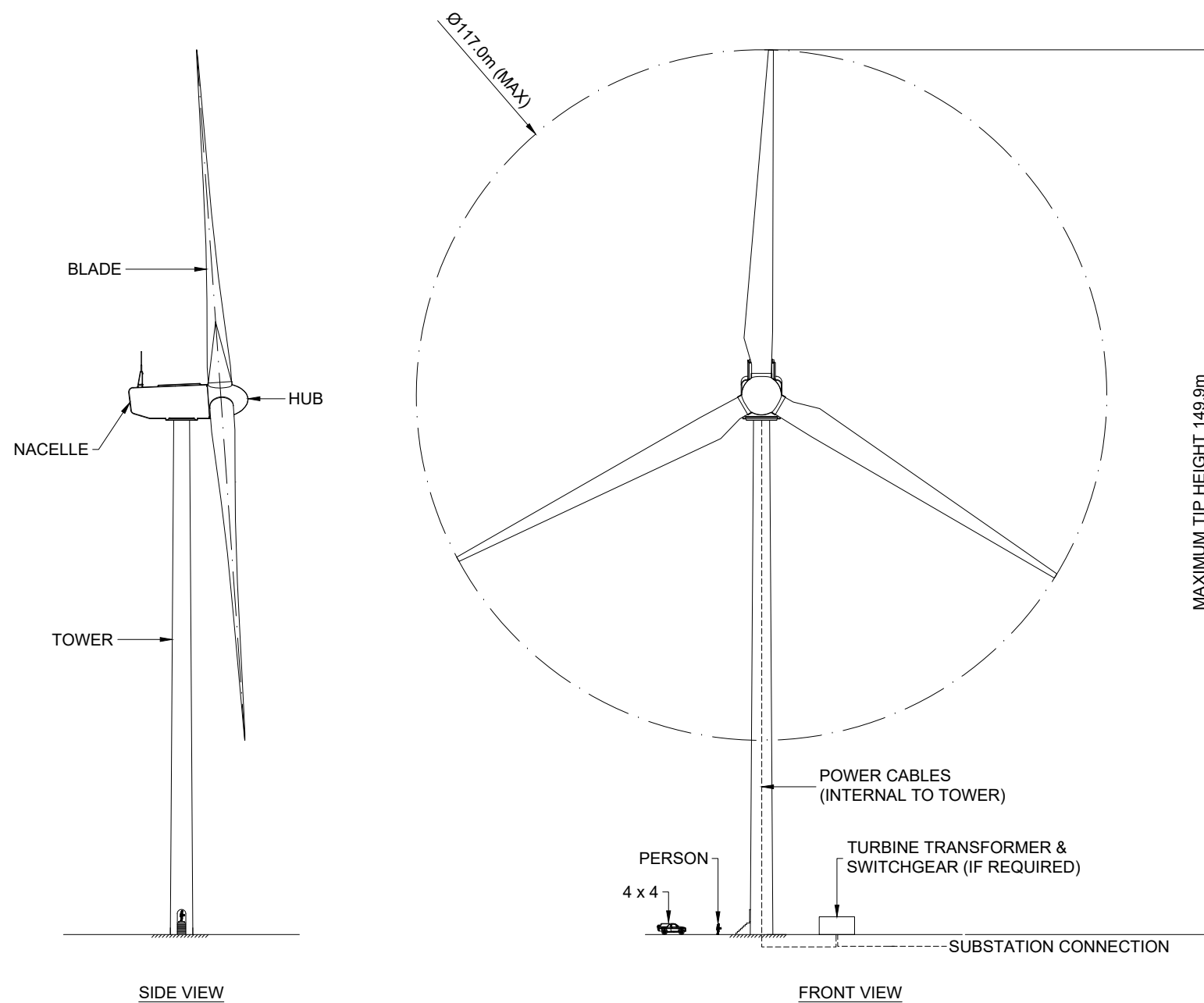
Figure 2.2: Turbine Elevation



**DUNBEG SOUTH
WIND FARM**

FIGURE 2.2

TURBINE ELEVATION



PHOTOGRAPH OF TYPICAL TURBINE

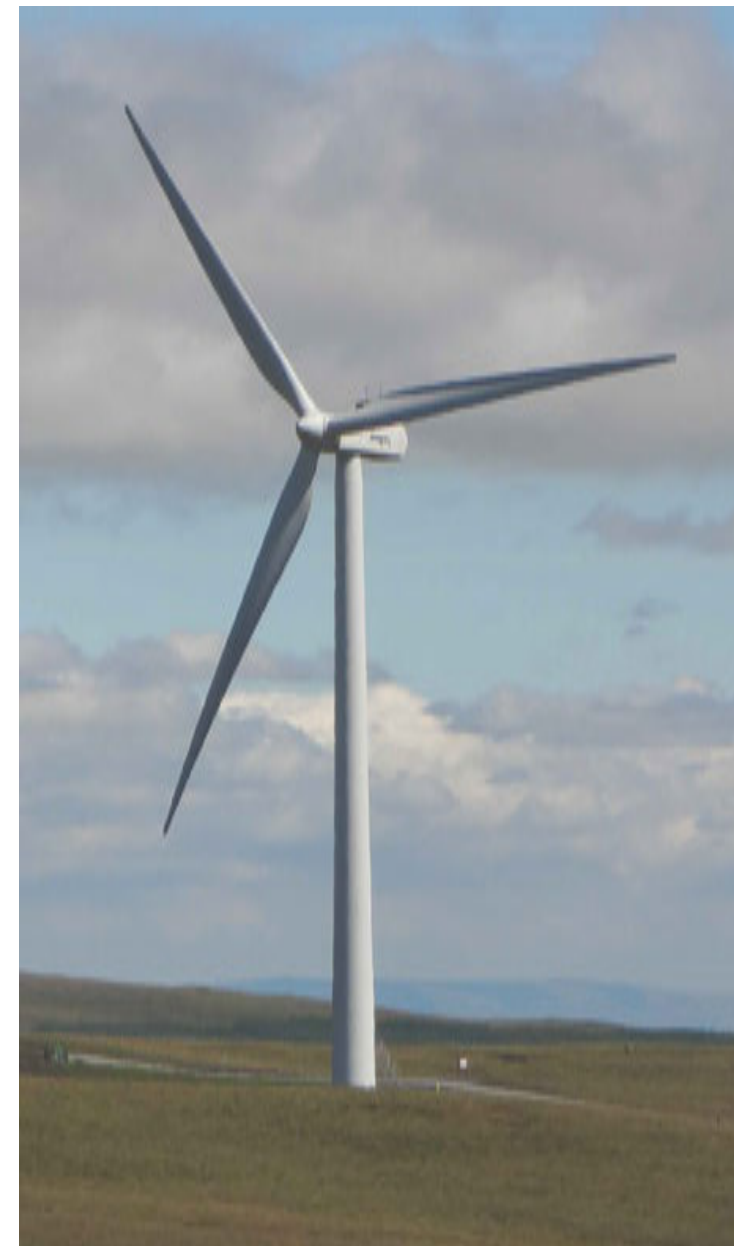
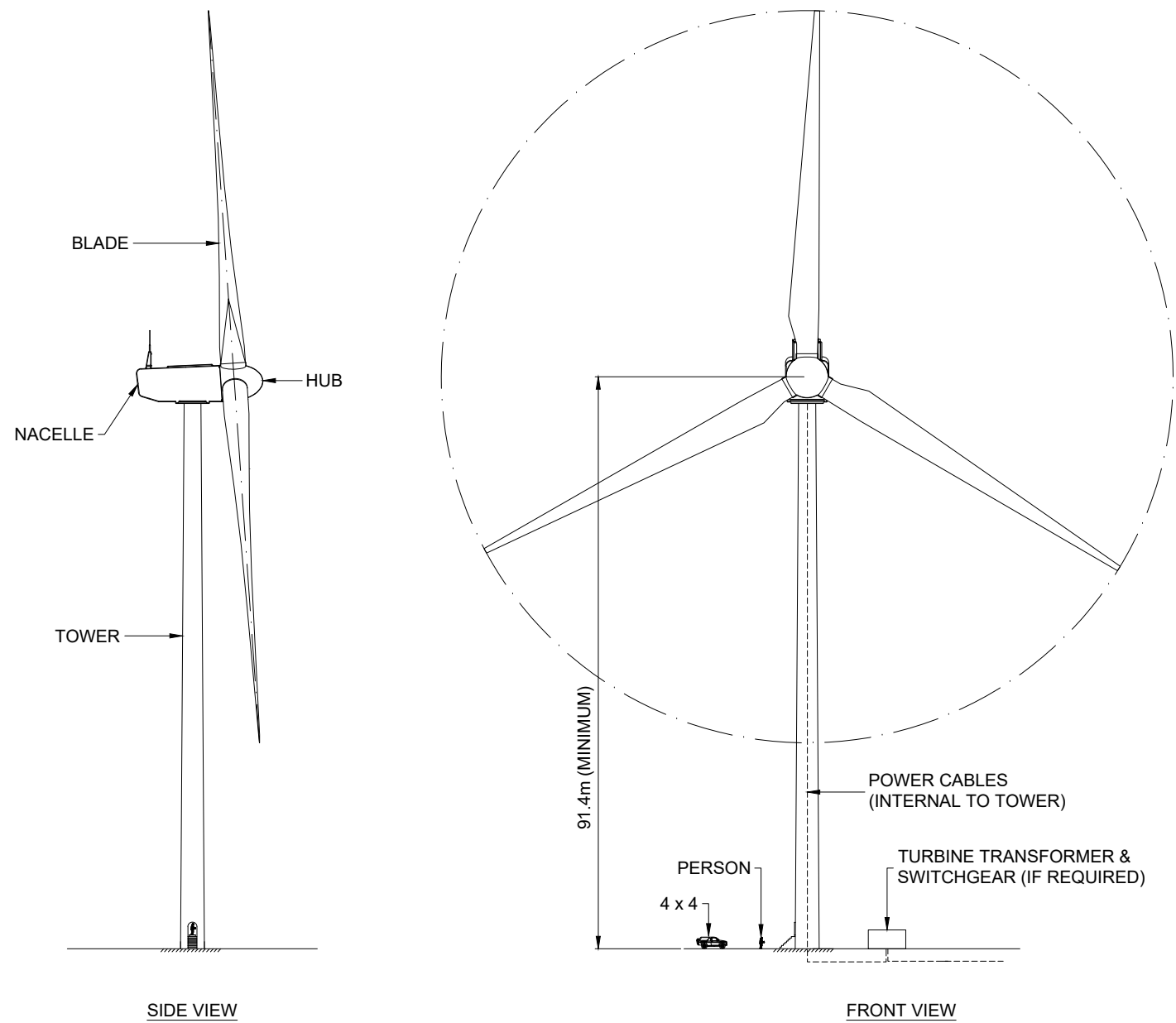
SHEET 1 OF 2

LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER	03219-RES-WTG-DR-PT-001		
SCALE	1:1000 @ A3		
PLANNING APPLICATION 2022			
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**DUNBEG SOUTH
WIND FARM**

**FIGURE 2.2
TURBINE ELEVATION**



PHOTOGRAPH OF TYPICAL TURBINE

SHEET 2 OF 2

LAYOUT DWG	N/A	T-LAYOUT NO.	N/A
DRAWING NUMBER	03219-RES-WTG-DR-PT-001		
SCALE	1:1000 @ A3		
PLANNING APPLICATION 2022			
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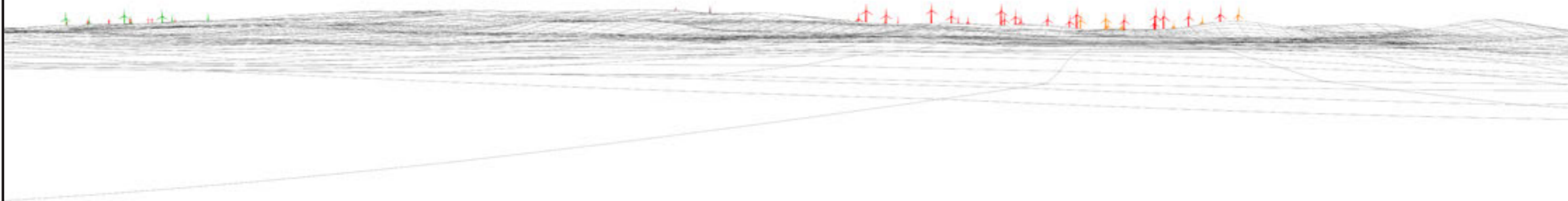
Figures 4.15 - 4.42: Landscape and Visual Impact assessment

← Visible in the wider view / in other directions:
Carntogher Cluster (Existing and Consented)

DUNBEG SOUTH
7 8

Dunbeg Cluster
Existing & Consented

Rigged Hill
Rigged Hill Re-Power



Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

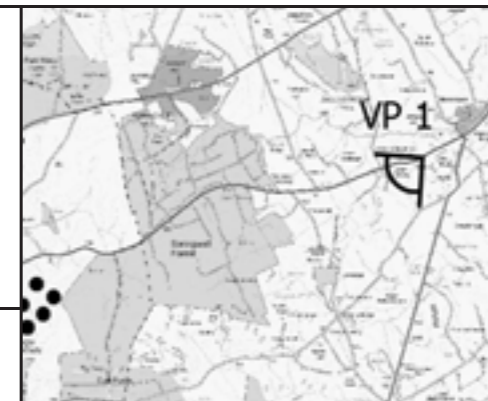
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**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.15
COMPARATIVE WIRELINE: VIEWPOINT 1
A37 NEAR MACOSQUIN**

Easting: 281603
Northing: 428108
Elevation A.O.D: 89 m
Bearing: 249.29 °
Approx. Included Angle: 75 °
Approx. distance to nearest turbine: 7.56 km to T8



**LANDSCAPE AND VISUAL
IMPACT ASSESSMENT**

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SMc / EC	April 2022	A3	A

Layout no. PNIRdbx046

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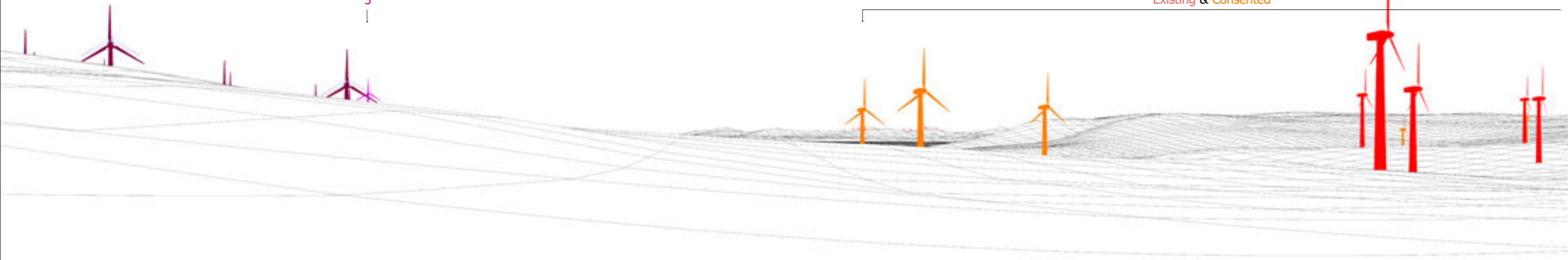
NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish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

7, 6 4, 8 DUNBEG SOUTH 5, 3 2 9,1

Single Turbine
3

Inishowen Cluster
(Existing & Consented)

Dunbeg Cluster
Existing & Consented



Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

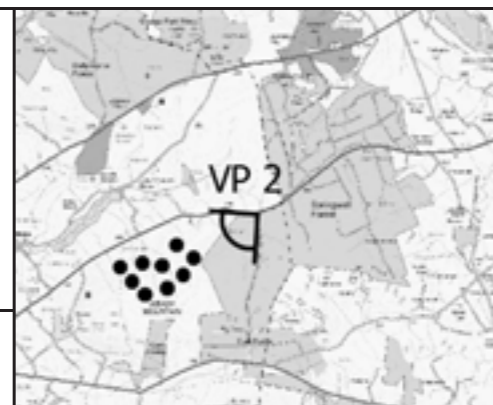
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**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.16
COMPARATIVE WIRELINE: VIEWPOINT 2
A37, PARKING LAYBY NEAR
DUNBEG WIND FARM**

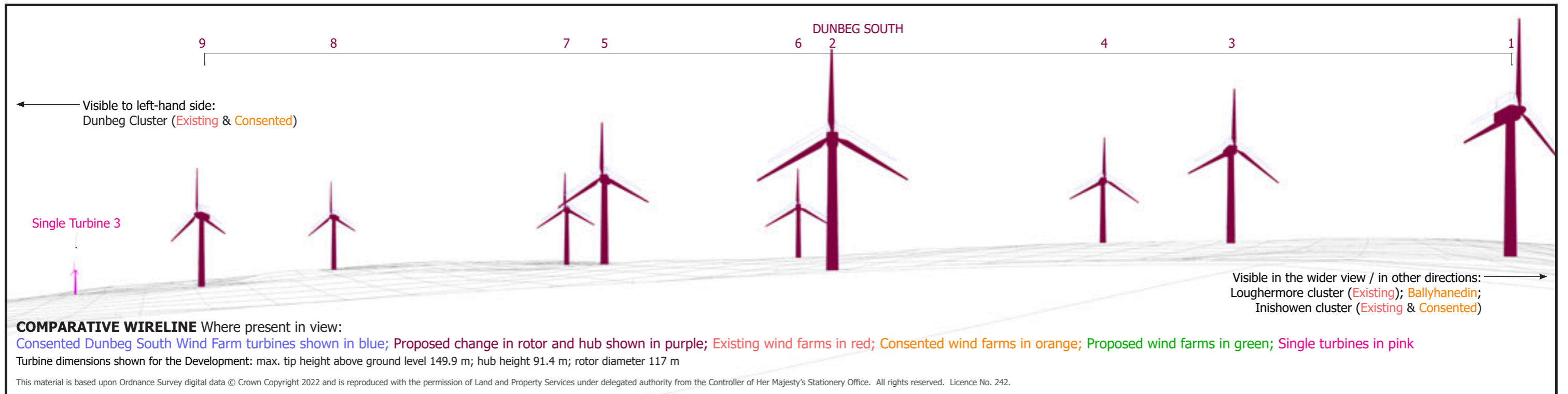
Easting: 275677
Northing: 426261
Elevation A.O.D: 247 m
Bearing: 242.00 °
Approx. Included Angle: 80 °
Approx. distance to nearest turbine: 1.39 km to T8



LANDSCAPE AND VISUAL IMPACT ASSESSMENT			
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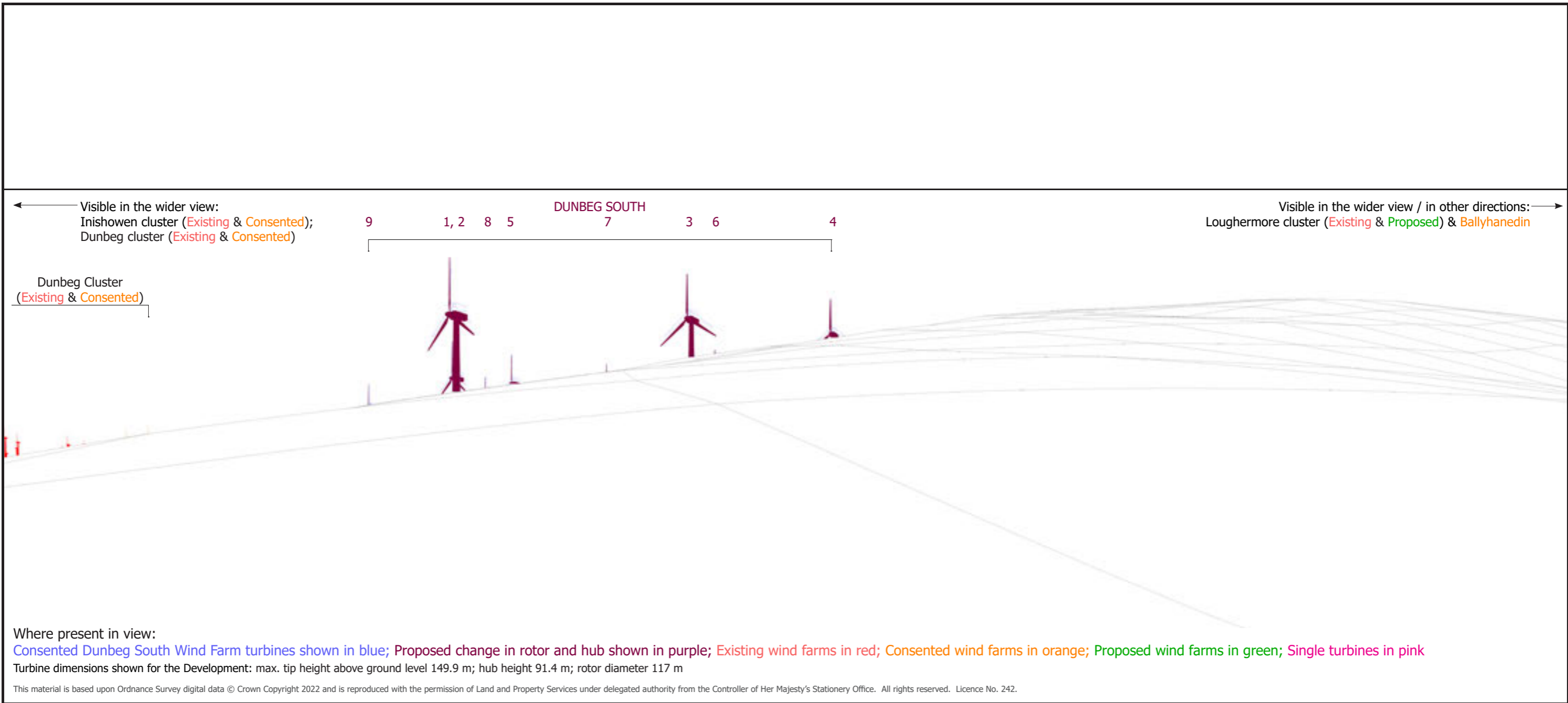
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<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p> <table border="1"> <tr> <td>DRAWN / APPROVED: SMc / EC</td> <td>DATE: April 2022</td> <td>PRINT SIZE: A3</td> <td>REVISION: A</td> </tr> </table> <p>Layout no. PNIRdbx046</p> <p><small>THIS DRAWING IS THE 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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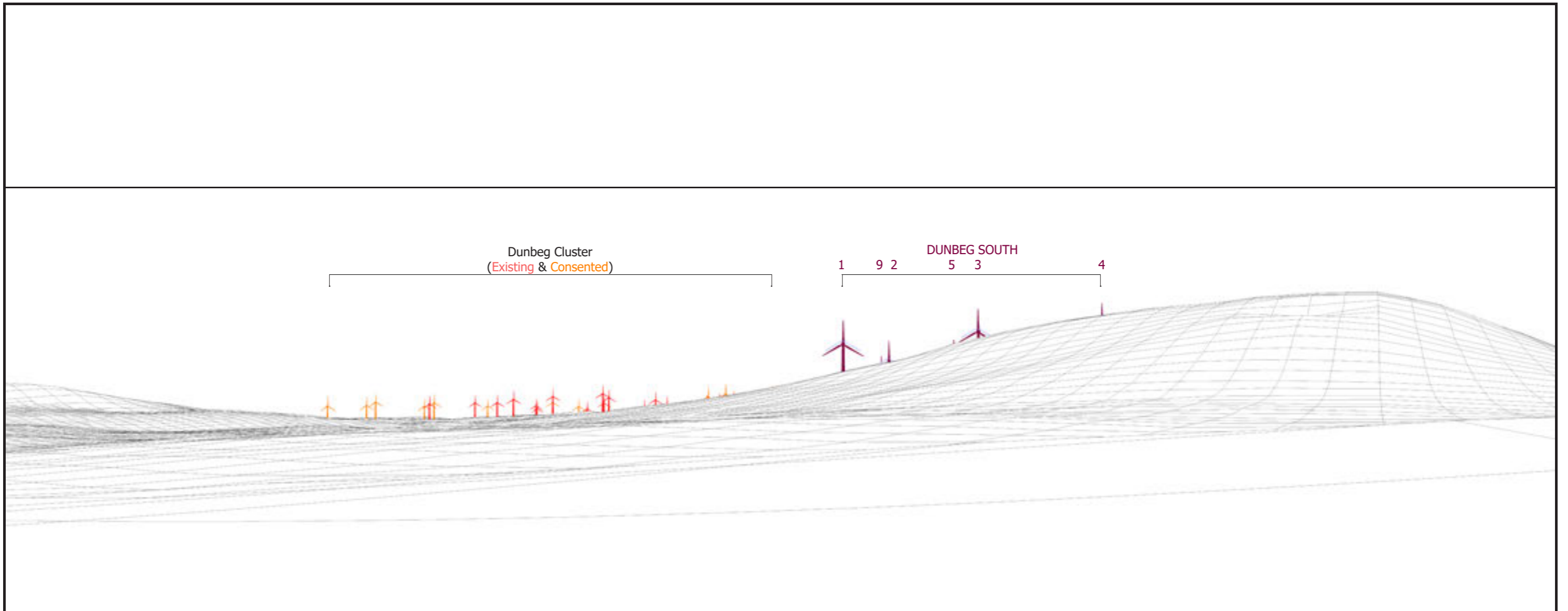
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.18
COMPARATIVE WIRELINE: VIEWPOINT 4
KEDDY MOUNTAIN NEAR A37**

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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Easting:	272380
Northing:	425103
Elevation A.O.D	147 m
Bearing:	86.77 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	0.79 km to T1





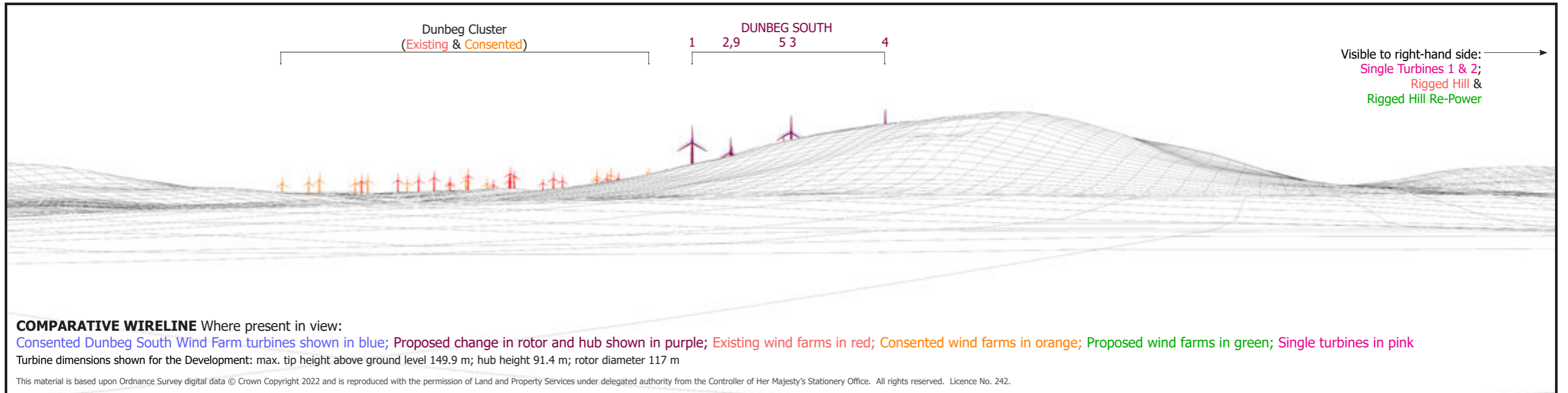
Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

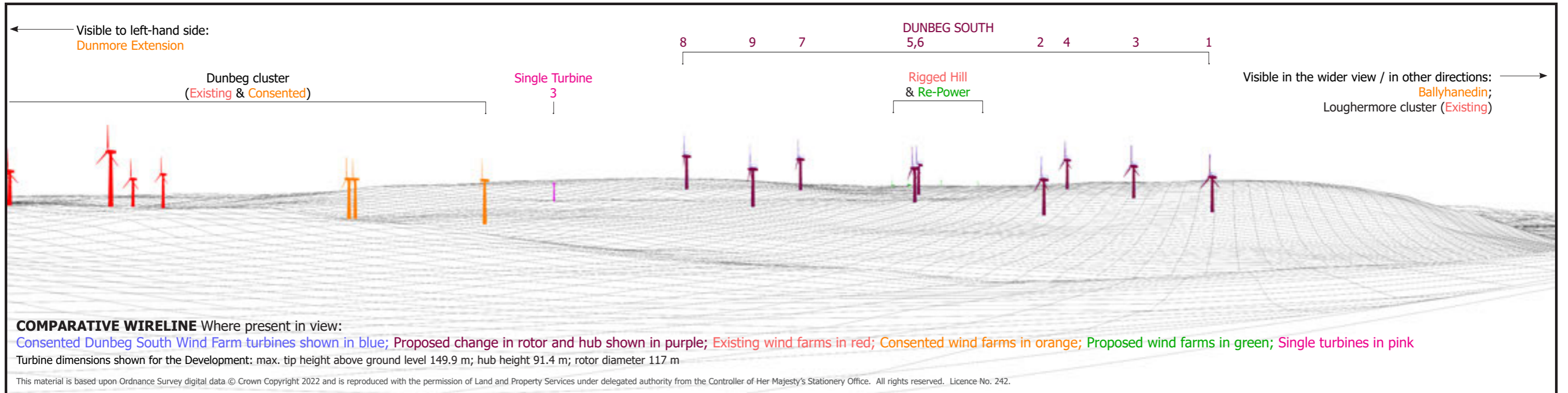
Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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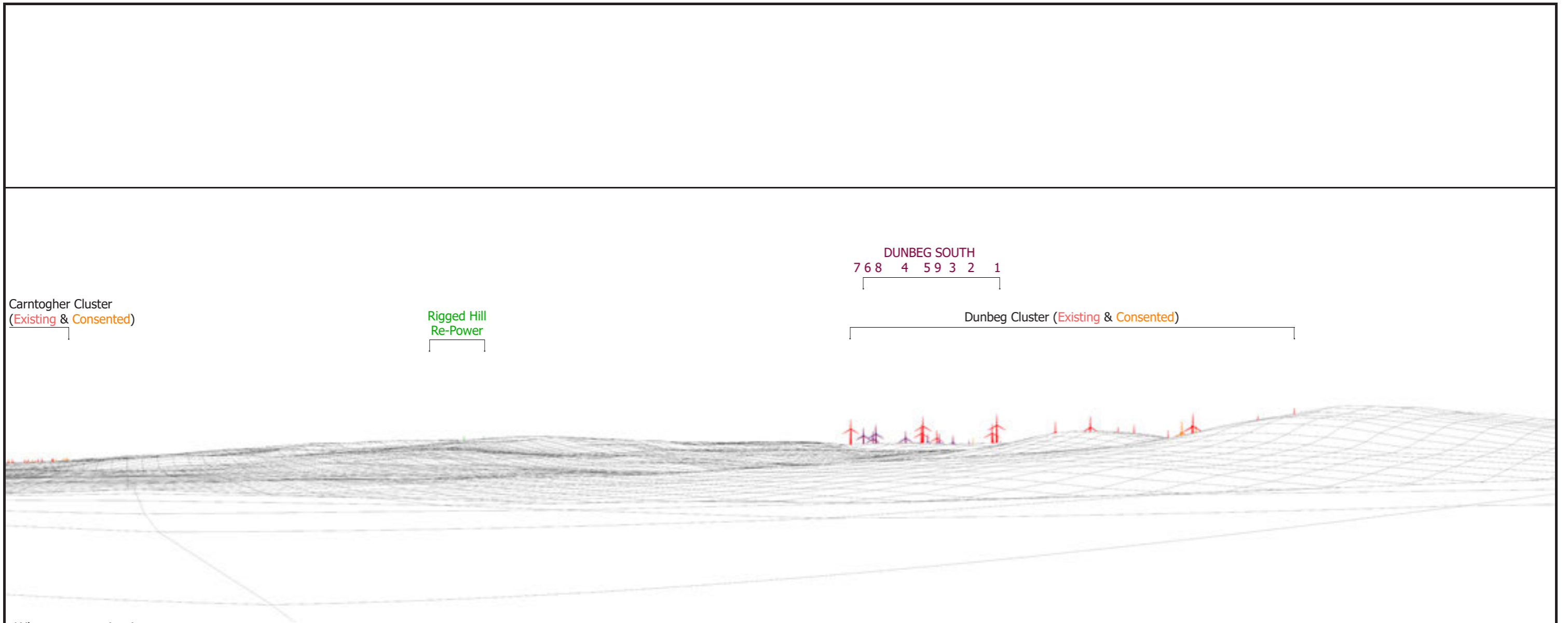
<p>Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk</p>	<p>DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE</p> <p>FIGURE 4.19 COMPARATIVE WIRELINE: VIEWPOINT 5 GORTGARN ROAD NEAR JUNCTION WITH A37, BROAD ROAD MIDDLE</p>	<p>Easting: 270833 Northing: 424005 Elevation A.O.D: 52 m Bearing: 62.75 ° Approx. Included Angle: 75 ° Approx. distance to nearest turbine: 2.63 km to T1</p>			
<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p> <table border="1"> <tr> <td>DRAWN / APPROVED: SMc / EC</td> <td>DATE: April 2022</td> <td>PRINT SIZE: A3</td> <td>REVISION: A</td> </tr> </table>		DRAWN / APPROVED: SMc / EC	DATE: April 2022	PRINT SIZE: A3	REVISION: A
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Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk		DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE		Easting: 269992 Northing: 423391 Elevation A.O.D: 37 m Bearing: 65.18 ° Approx. Included Angle: 75 ° Approx. distance to nearest turbine: 3.67 km to T1					
LANDSCAPE AND VISUAL IMPACT ASSESSMENT		FIGURE 4.20 VIEWPOINT 6 A37 LAYBY, BROAD ROAD LOWER		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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.					
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<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p> <p>DRAWN / APPROVED: SMc / EC DATE: April 2022 PRINT SIZE: A3 REVISION: A</p>				
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Where present in view:
 Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink
 Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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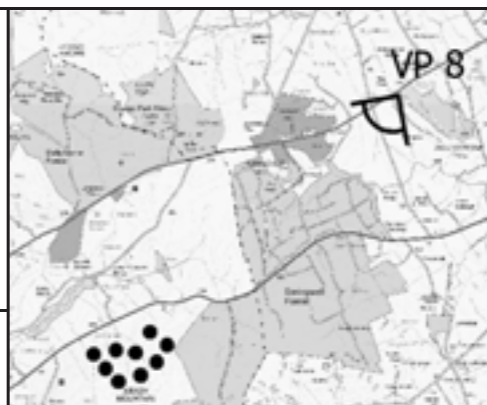
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**DUNBEG SOUTH WIND FARM
 PROPOSED ROTOR INCREASE**

**FIGURE 4.22
 COMPARATIVE WIRELINE: VIEWPOINT 8
 BALLINAREES ORANGE HALL,
 B201, WINDYHILL ROAD**

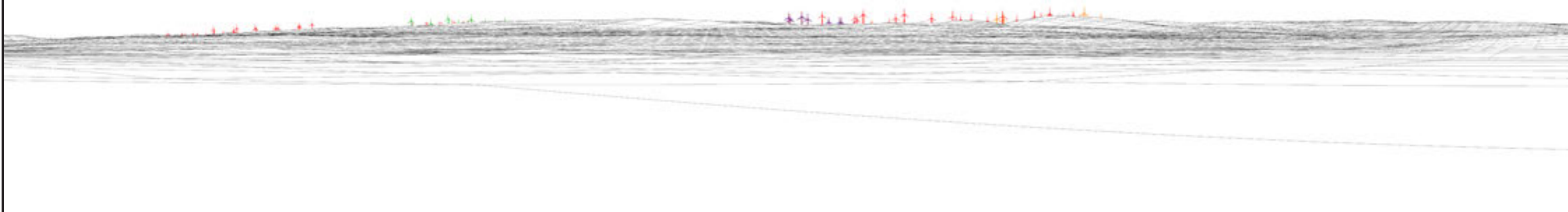
Easting:	278852
Northing:	430214
Elevation A.O.D	137 m
Bearing:	224.80 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	6.44 km to T8

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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



← Visible in the wider view / in other directions:
 Carnogher Cluster (Existing and Consented);
 Cam Burn

DUNBEG SOUTH
 order of turbines L-R: 7, 6, 8, 4, 5, 3, 9, 2, 1



Where present in view:
 Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink
 Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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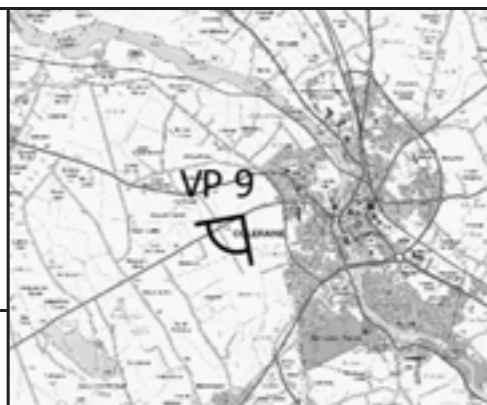
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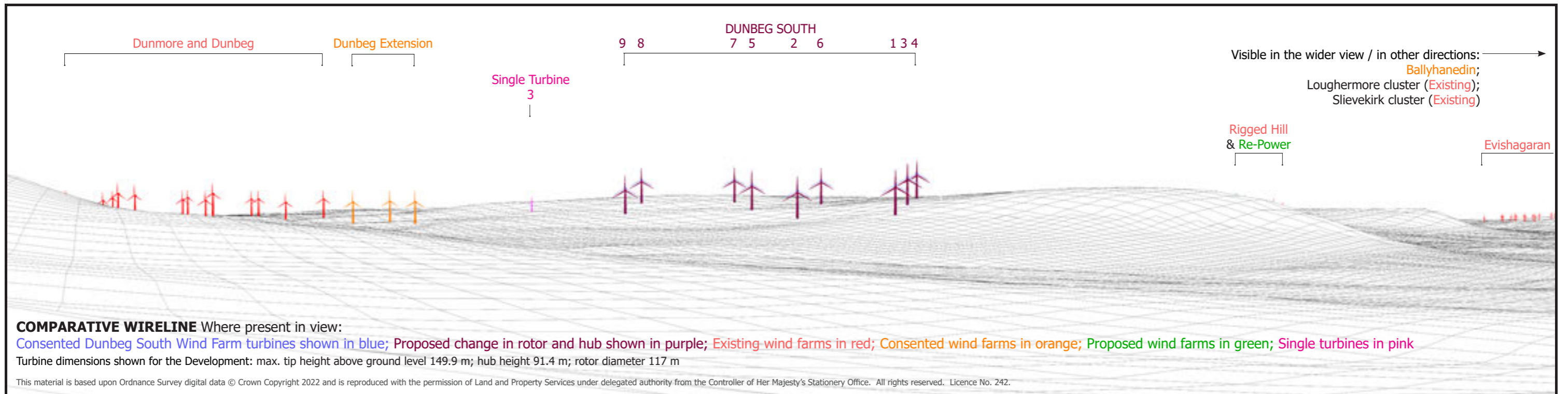
**DUNBEG SOUTH WIND FARM
 PROPOSED ROTOR INCREASE**

**FIGURE 4.23
 COMPARATIVE WIRELINE: VIEWPOINT 9
 B201, WINDYHILL ROAD
 NEAR COLERAINE**

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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Easting:	282877
Northing:	432492
Elevation A.O.D	50 m
Bearing:	230.94 °
Approx. Included Angle:	75 °
Approx. distance to nearest turbine:	10.89 km to T8





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DUNBEG SOUTH
not visible

Visible in the wider view / in other directions:
 Slievekirk cluster (Existing) →
 Inishowen cluster (Existing & Consented)

Loughermore Cluster
(Existing)

Ballyhanedin

Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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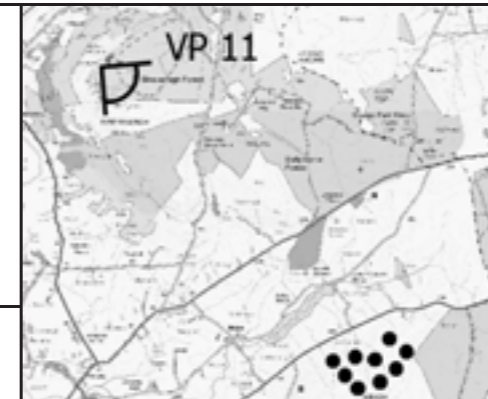
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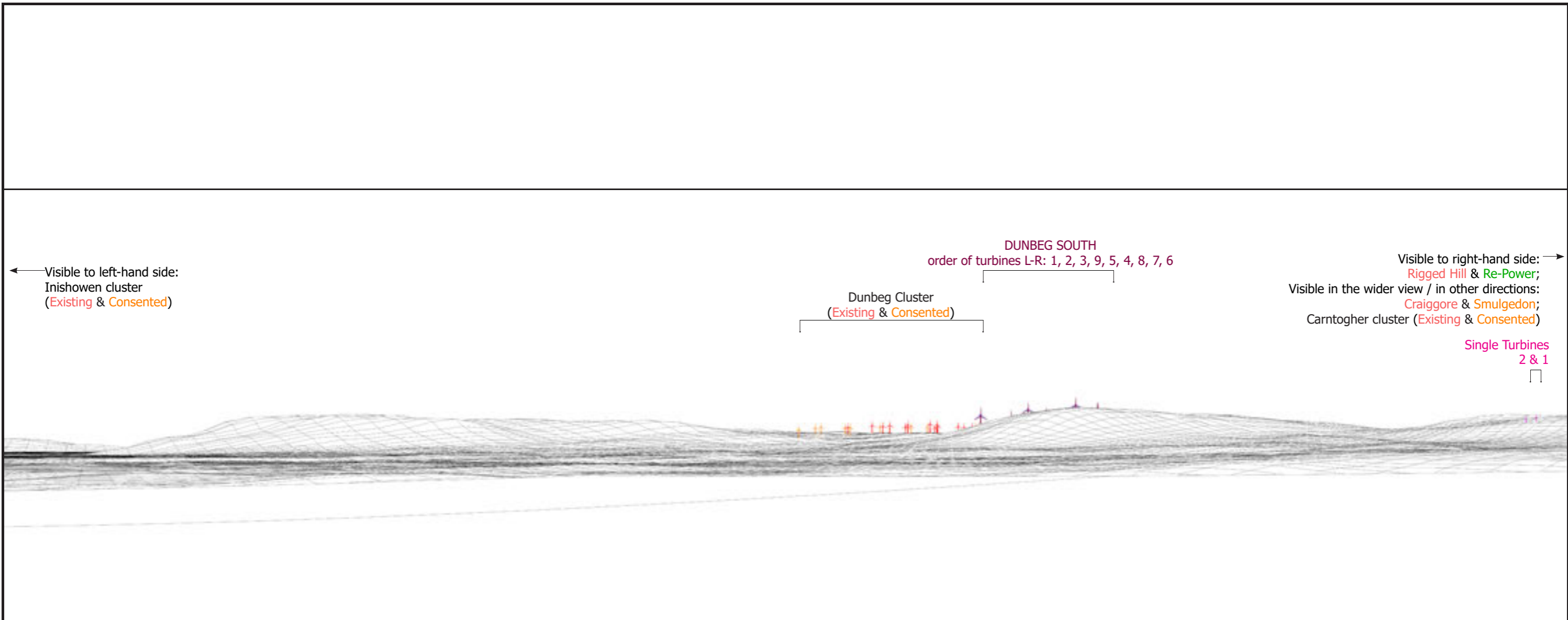
DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE

FIGURE 4.25
COMPARATIVE WIRELINE: VIEWPOINT 11
BINEVENAGH LAKE VIEWPOINT

Easting: 268722
 Northing: 430622
 Elevation A.O.D: 378 m
 Bearing: 136.53 °
 Approx. Included Angle: 75 °
 Approx. distance to nearest turbine: 7.02 km to T1



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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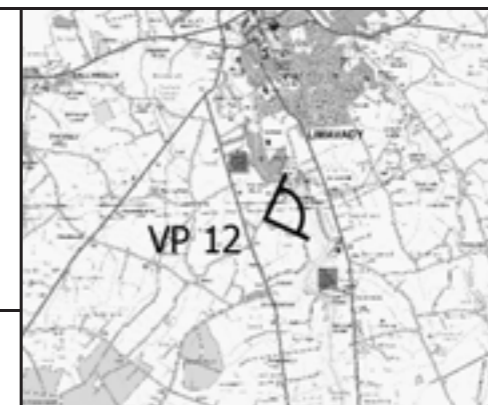
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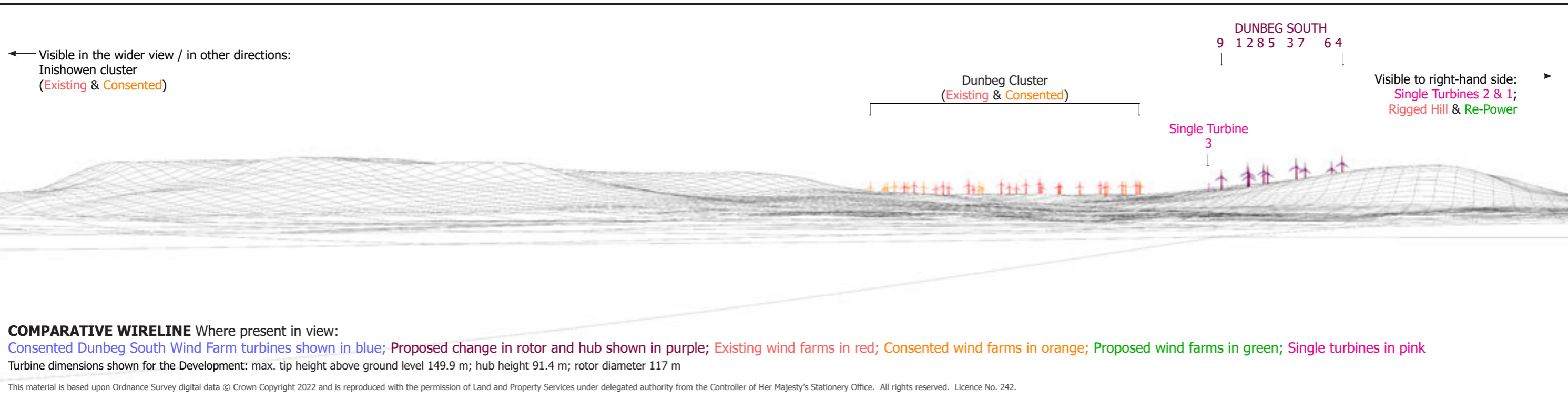
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.26
COMPARATIVE WIRELINE: VIEWPOINT 12
DOGLEAP ROAD, ROE VALLEY
COUNTRY PARK ENVIRONS**

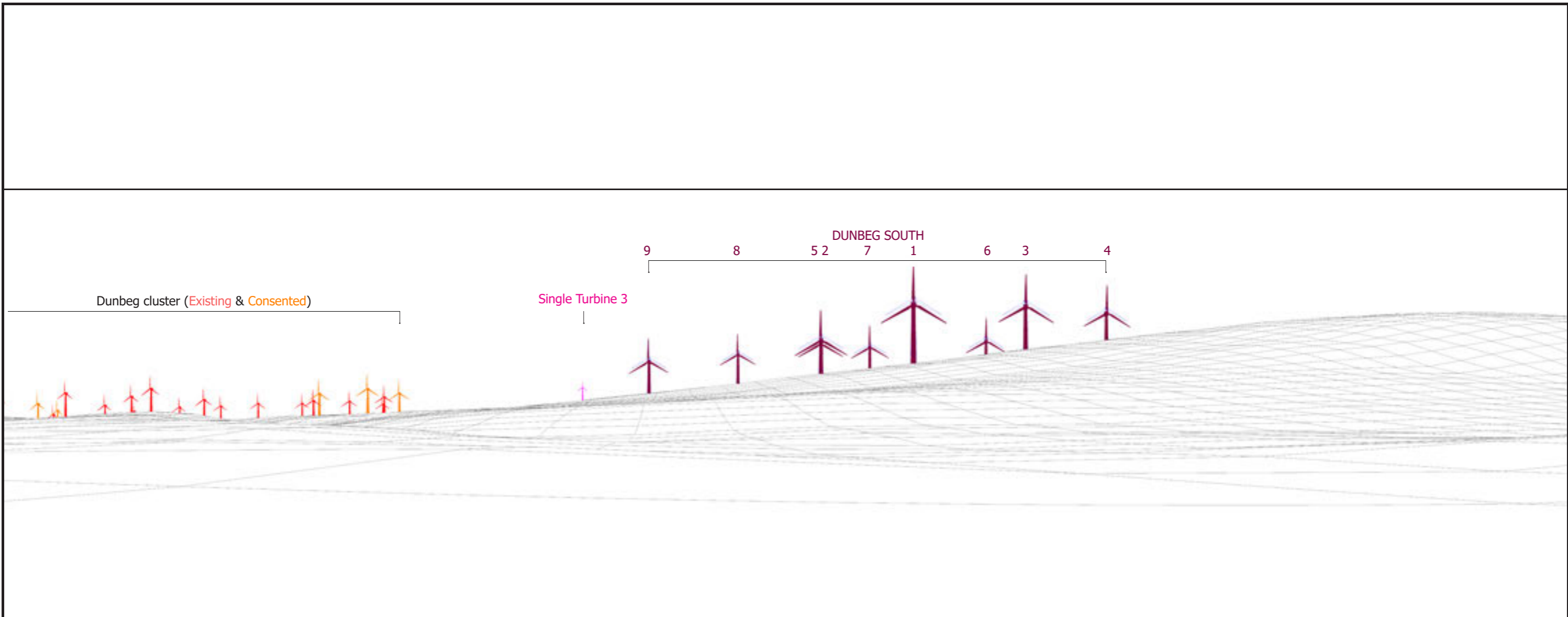
Easting: 267261
 Northing: 419671
 Elevation A.O.D: 77 m
 Bearing: 50.16 °
 Approx. Included Angle: 75 °
 Approx. distance to nearest turbine: 8.09 km to T3



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



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<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p>		<p>FIGURE 4.27 VIEWPOINT 13 A2 SCENIC ROUTE NEAR SEACOAST ROAD GARDEN CENTRE</p>							
<p><small>DRAWN / APPROVED:</small> SMc / EC</p>	<p><small>DATE:</small> April 2022</p>	<p><small>PRINT SIZE:</small> A3</p>	<p><small>REVISION:</small> A</p>	<p><small>Layout no. PNIRdbx046</small></p> <p>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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</p>					
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Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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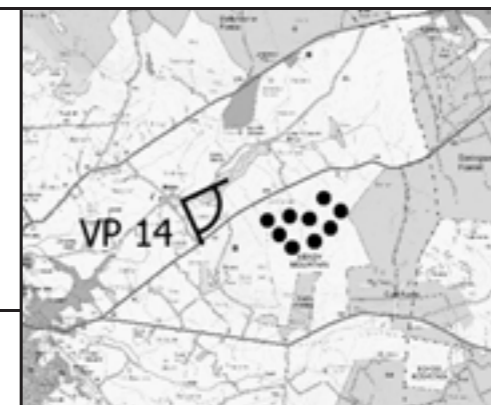
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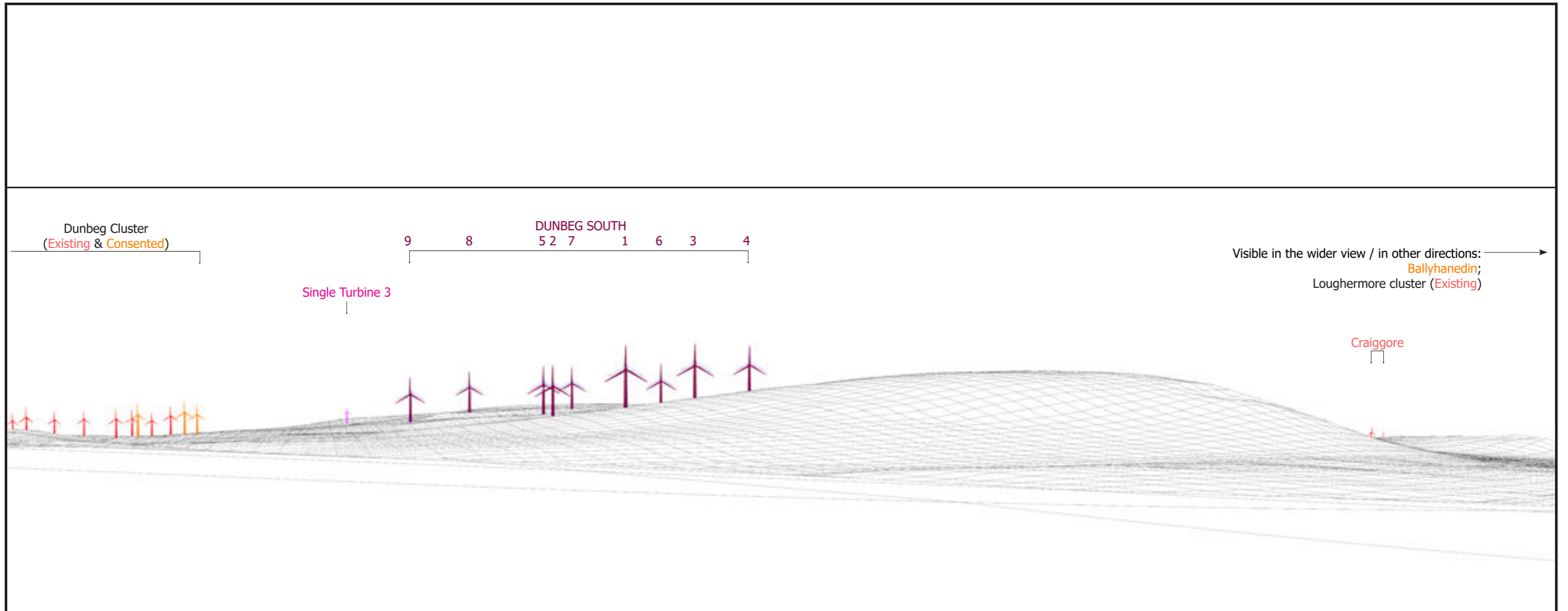
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.28
COMPARATIVE WIRELINE: VIEWPOINT 14
BOLEA ROAD MIDDLE**

Easting: 271568
 Northing: 425634
 Elevation A.O.D: 61 m
 Bearing: 100.97 °
 Approx. Included Angle: 80 °
 Approx. distance to nearest turbine: 1.64 km to T1



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



Where present in view:
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 Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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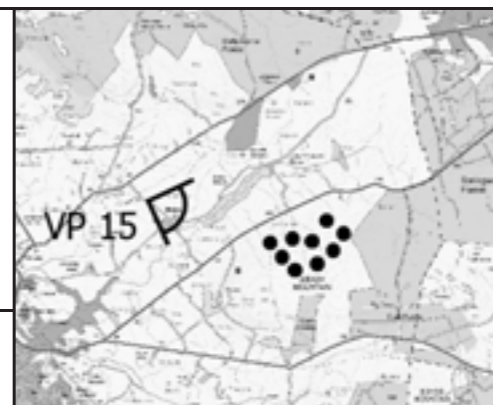
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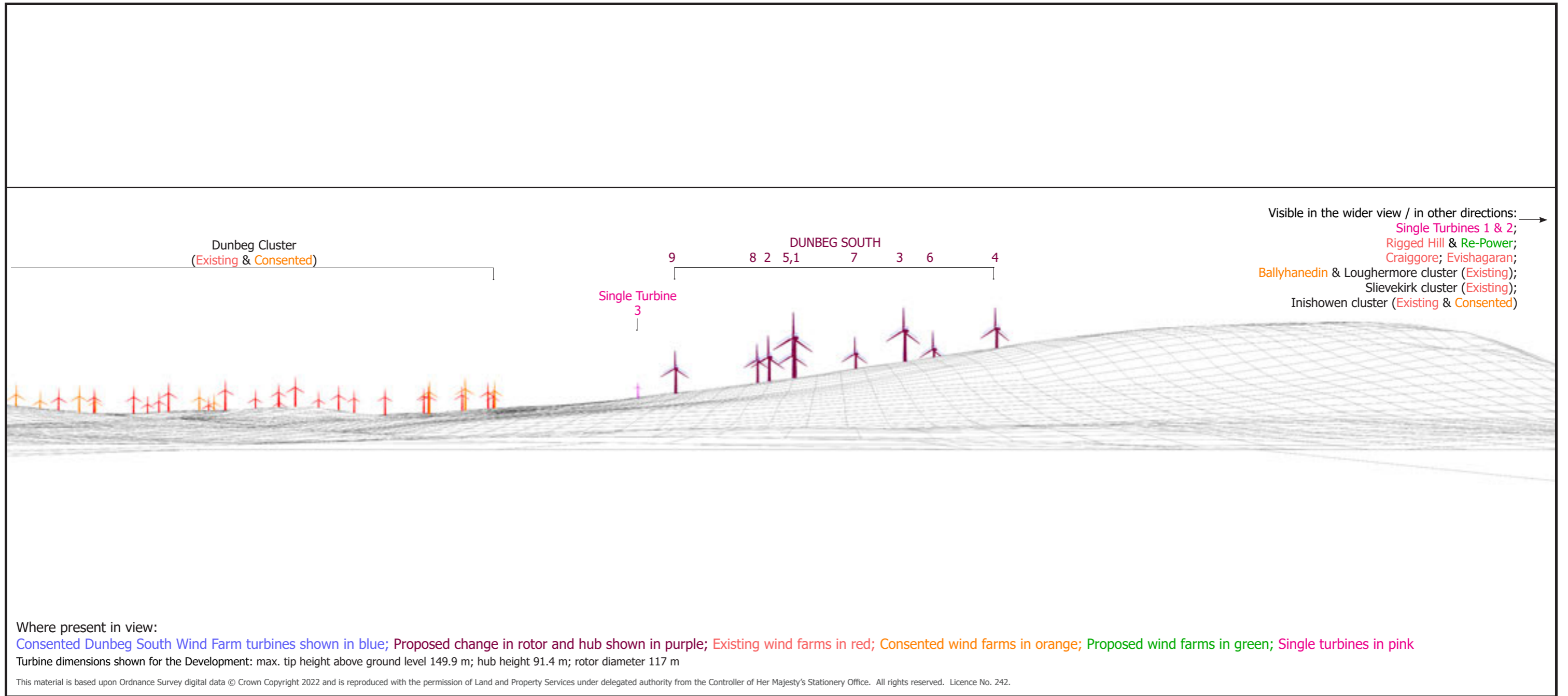
**DUNBEG SOUTH WIND FARM
 PROPOSED ROTOR INCREASE**

**FIGURE 4.29
 COMPARATIVE WIRELINE: VIEWPOINT 15
 DRUMALIEF ROAD OFF B201**

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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Easting: 270821
 Northing: 425971
 Elevation A.O.D: 70 m
 Bearing: 104.30 °
 Approx. Included Angle: 80 °
 Approx. distance to nearest turbine: 2.43 km to T1





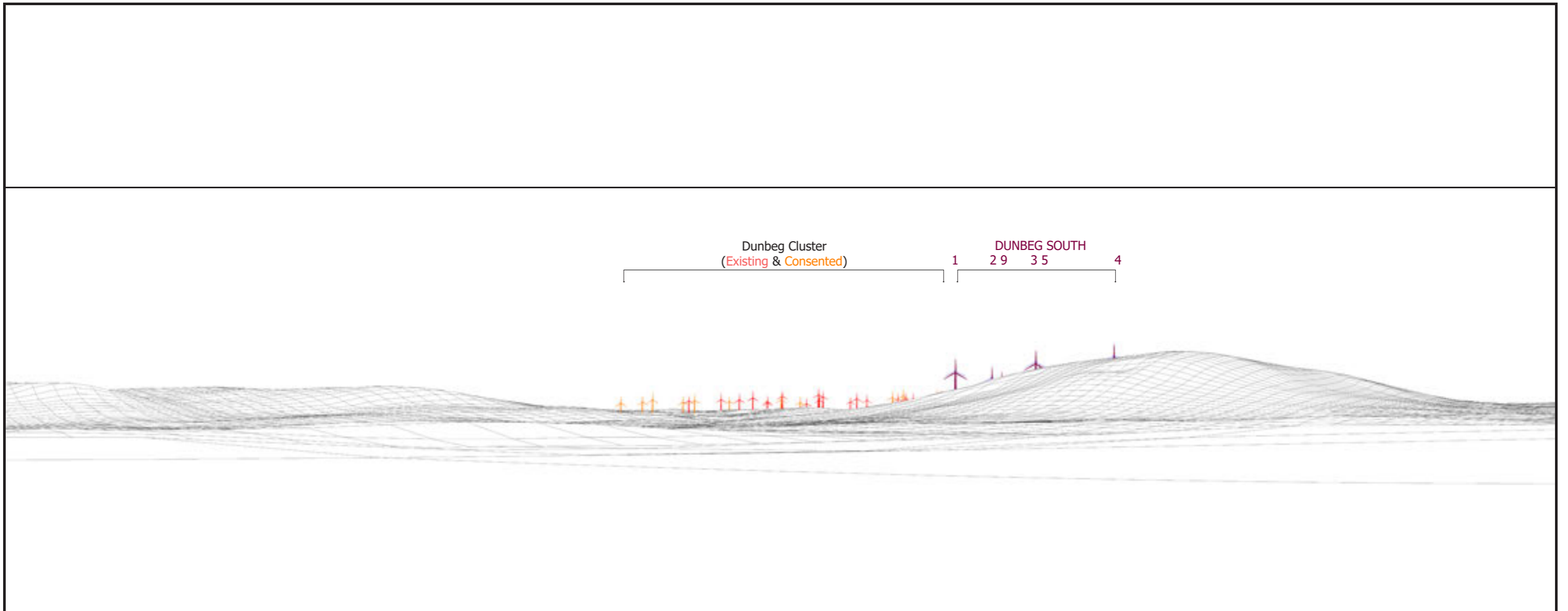
Where present in view:

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Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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<p>Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk</p>	<p>DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE</p> <p>FIGURE 4.30 COMPARATIVE WIRELINE: VIEWPOINT 16 BOLEA ROAD NEAR DERAMORE PRESBYTERIAN CHURCH</p>	<p>Easting: 270653 Northing: 425169 Elevation A.O.D: 52 m Bearing: 89.67 ° Approx. Included Angle: 75 ° Approx. distance to nearest turbine: 2.51 km to T1</p>		
<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p> <table border="1"> <tr> <td>DRAWN / APPROVED: SMc / EC</td> <td>DATE: April 2022</td> <td>PRINT SIZE: A3</td> <td>REVISION: A</td> </tr> </table>				
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Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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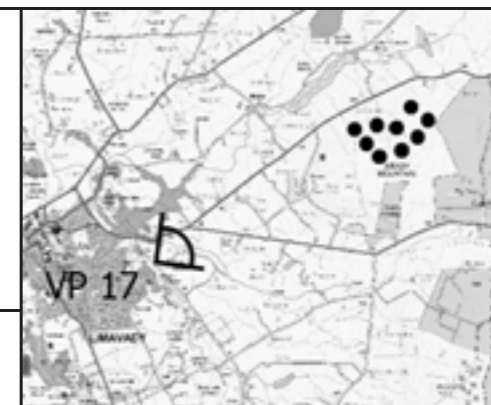
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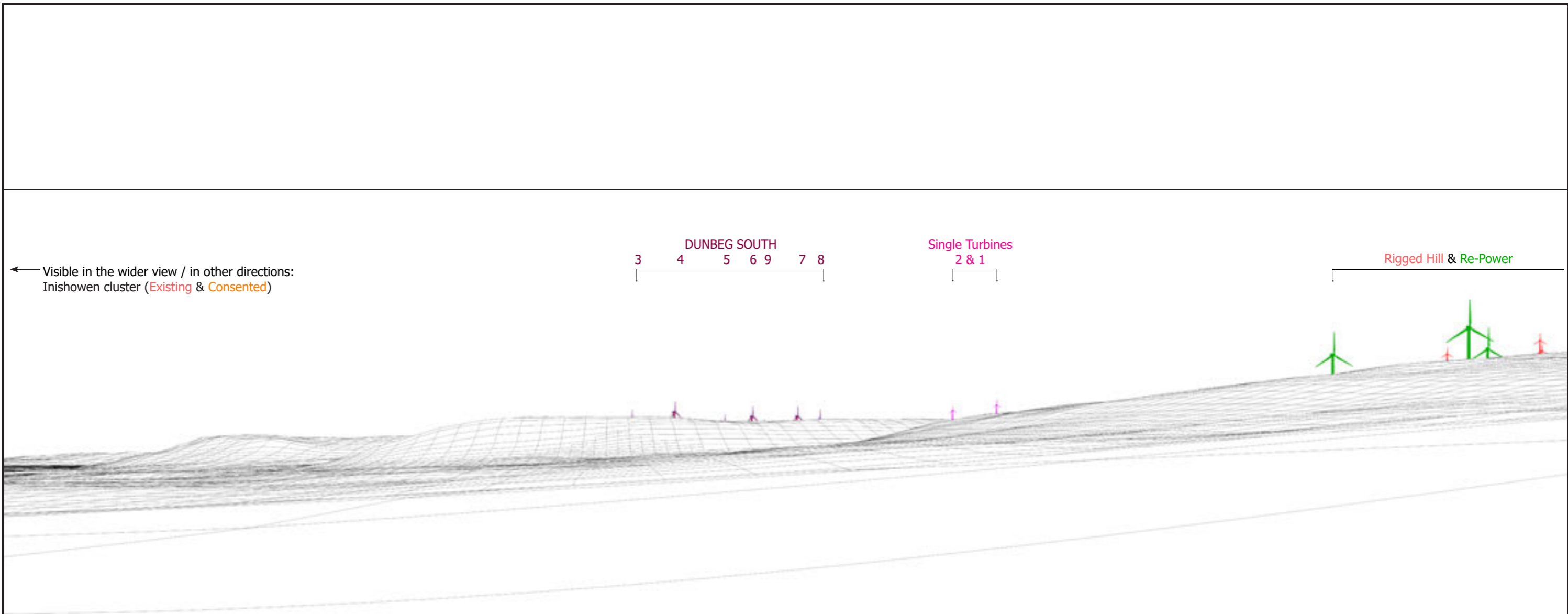
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.31
COMPARATIVE WIRELINE: VIEWPOINT 17
DRUMMOND CRICKET CLUB,
DRUMSURN ROAD**

Easting: 269276
 Northing: 422651
 Elevation A.O.D: 34 m
 Bearing: 61.11 °
 Approx. Included Angle: 75 °
 Approx. distance to nearest turbine: 4.65 km to T1



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.32
COMPARATIVE WIRELINE: VIEWPOINT 18
GORTNARNEY ROAD NEAR DRUMSURN**

Easting: 273271
Northing: 418367
Elevation A.O.D: 137 m
Bearing: 5.25 °
Approx. Included Angle: 75 °
Approx. distance to nearest turbine: 6.08 km to T4

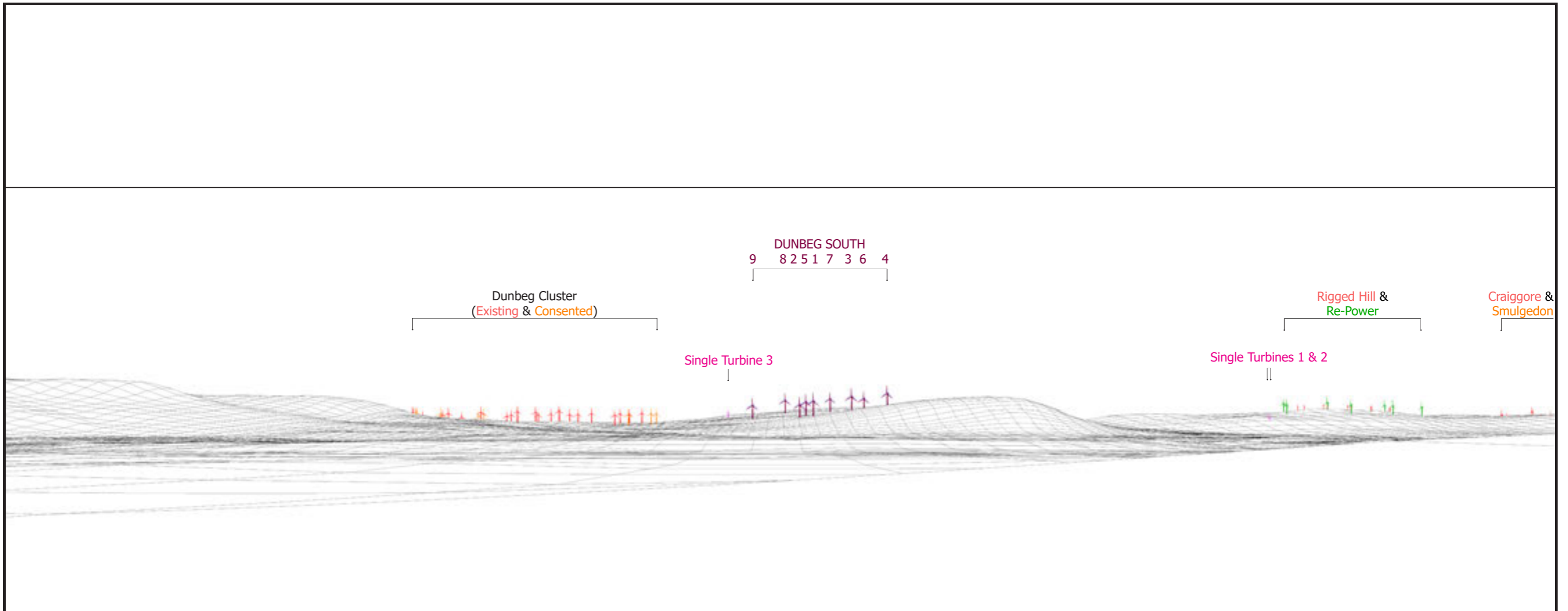


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Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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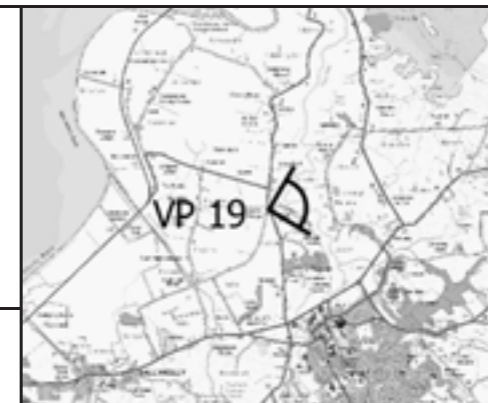
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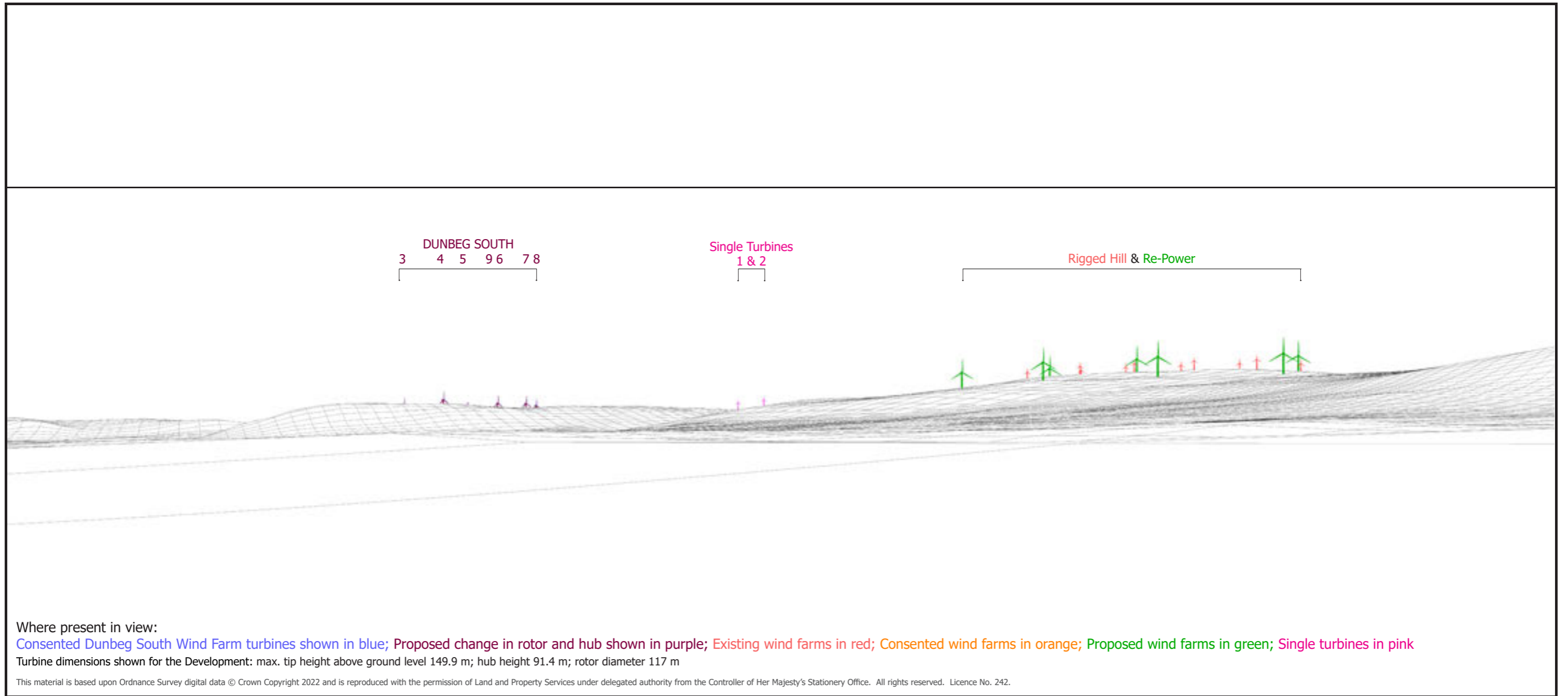
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.33
COMPARATIVE WIRELINE: VIEWPOINT 19
SEACOAST ROAD NEAR BALLYKELLY**

Easting: 266015
 Northing: 425472
 Elevation A.O.D: 14 m
 Bearing: 92.07 °
 Approx. Included Angle: 75 °
 Approx. distance to nearest turbine: 7.10 km to T1



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



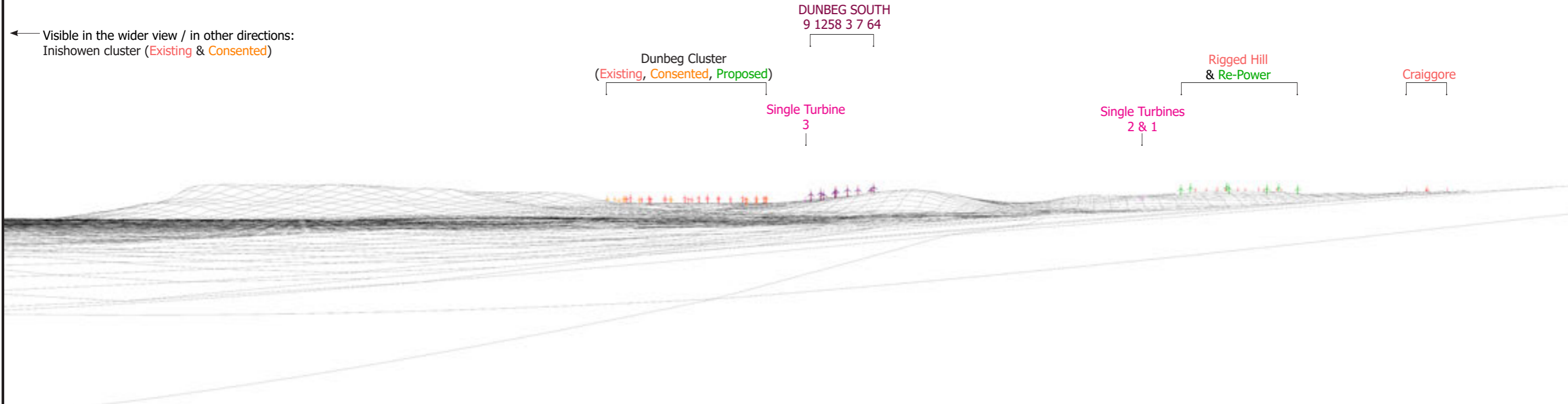
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Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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<p>Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk</p>	<p>DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE</p> <p>FIGURE 4.34 COMPARATIVE WIRELINE: VIEWPOINT 20 DRUMSURN VILLAGE AT FIR ROAD</p>	<p>Easting: 271776 Northing: 417278 Elevation A.O.D: 90 m Bearing: 14.84 ° Approx. Included Angle: 75 ° Approx. distance to nearest turbine: 7.70 km to T4</p>						
<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p> <table border="1"> <tr> <td>DRAWN / APPROVED: SMc / EC</td> <td>DATE: April 2022</td> <td>PRINT SIZE: A3</td> <td>REVISION: A</td> </tr> </table>		DRAWN / APPROVED: SMc / EC	DATE: April 2022	PRINT SIZE: A3	REVISION: A	<p>Layout no. PNIRdbx046</p> <p>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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</p>		
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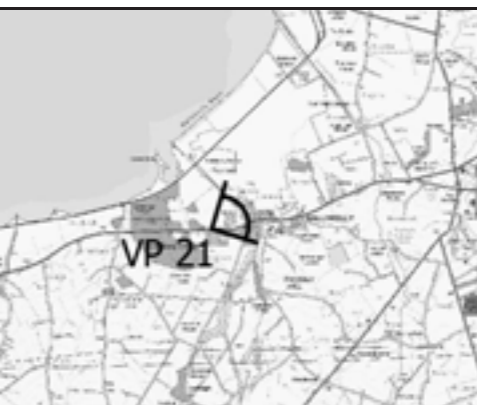
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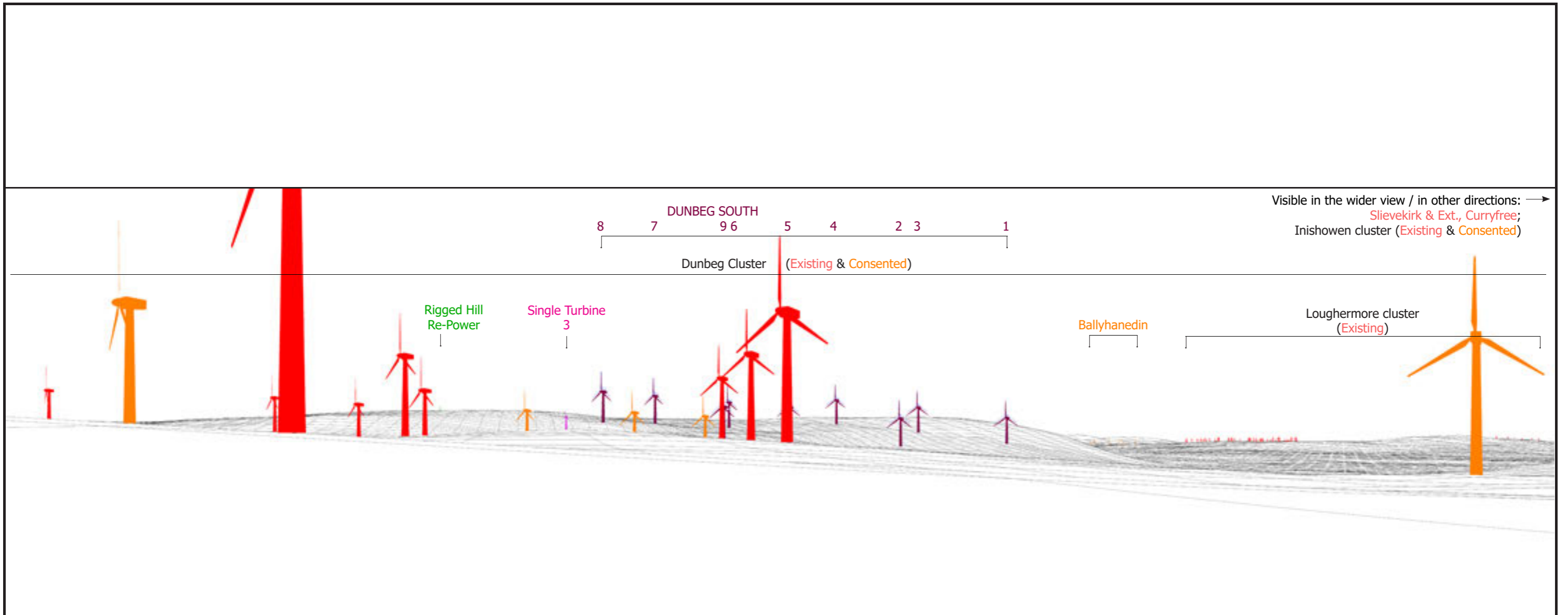
**DUNBEG SOUTH WIND FARM
 PROPOSED ROTOR INCREASE**

**FIGURE 4.35
 COMPARATIVE WIRELINE: VIEWPOINT 21
 FOYLE WAY NEAR RIVERVIEW HOUSING
 DEVELOPMENT, A2, BALLYKELLY TOWN**

Easting:	261822
Northing:	422139
Elevation A.O.D	30 m
Bearing:	75.80 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	11.74 km to T1



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



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Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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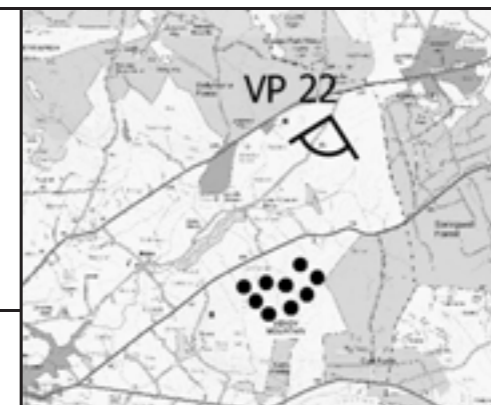
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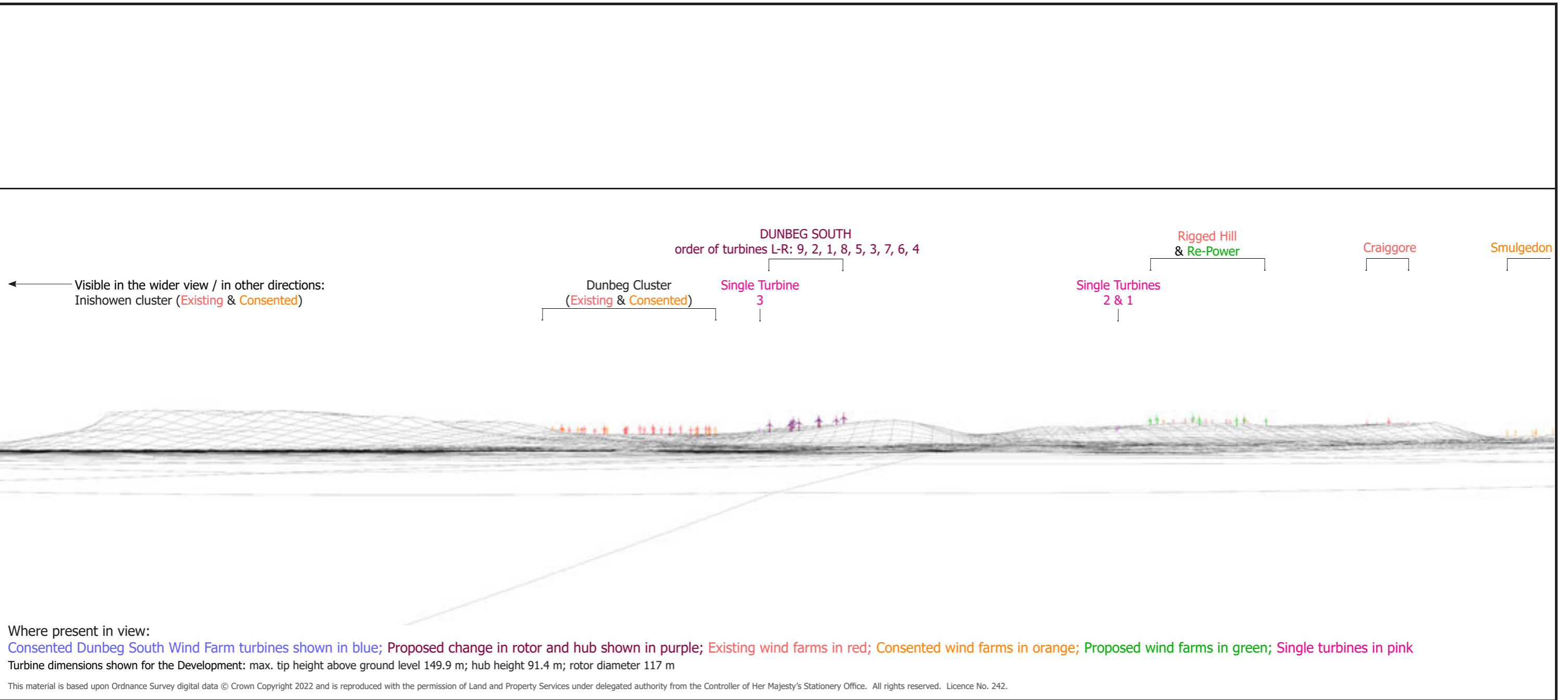
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.36
COMPARATIVE WIRELINE: VIEWPOINT 22
BOLEA ROAD UPPER NEAR DUNMORE
WIND FARM SITE ENTRANCE**

Easting: 274777
 Northing: 428503
 Elevation A.O.D: 226 m
 Bearing: 195.30 °
 Approx. Included Angle: 75 °
 Approx. distance to nearest turbine: 2.84 km to T9



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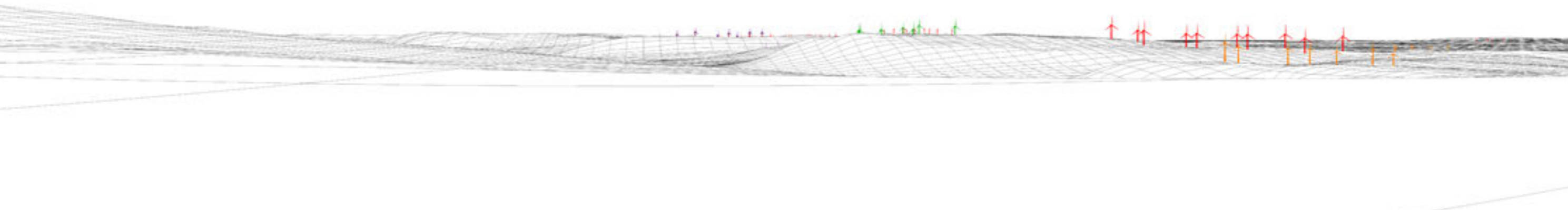
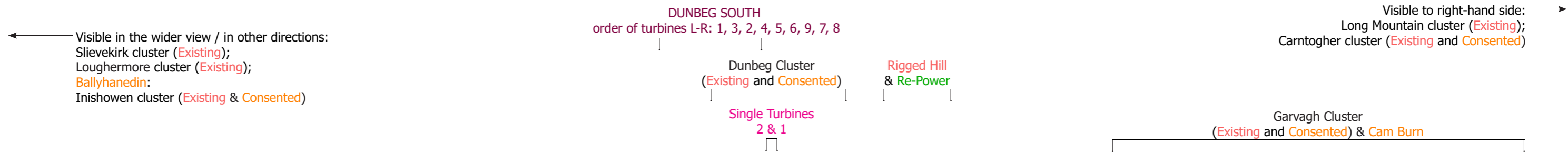
**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.37
COMPARATIVE WIRELINE: VIEWPOINT 23
BANK BIRD HIDE AND RAILWAY
CROSSING NEAR BALLYKELLY**

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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

Easting:	261275
Northing:	423546
Elevation A.O.D	6 m
Bearing:	82.57 °
Approx. Included Angle:	75 °
Approx. distance to nearest turbine:	11.99 km to T1

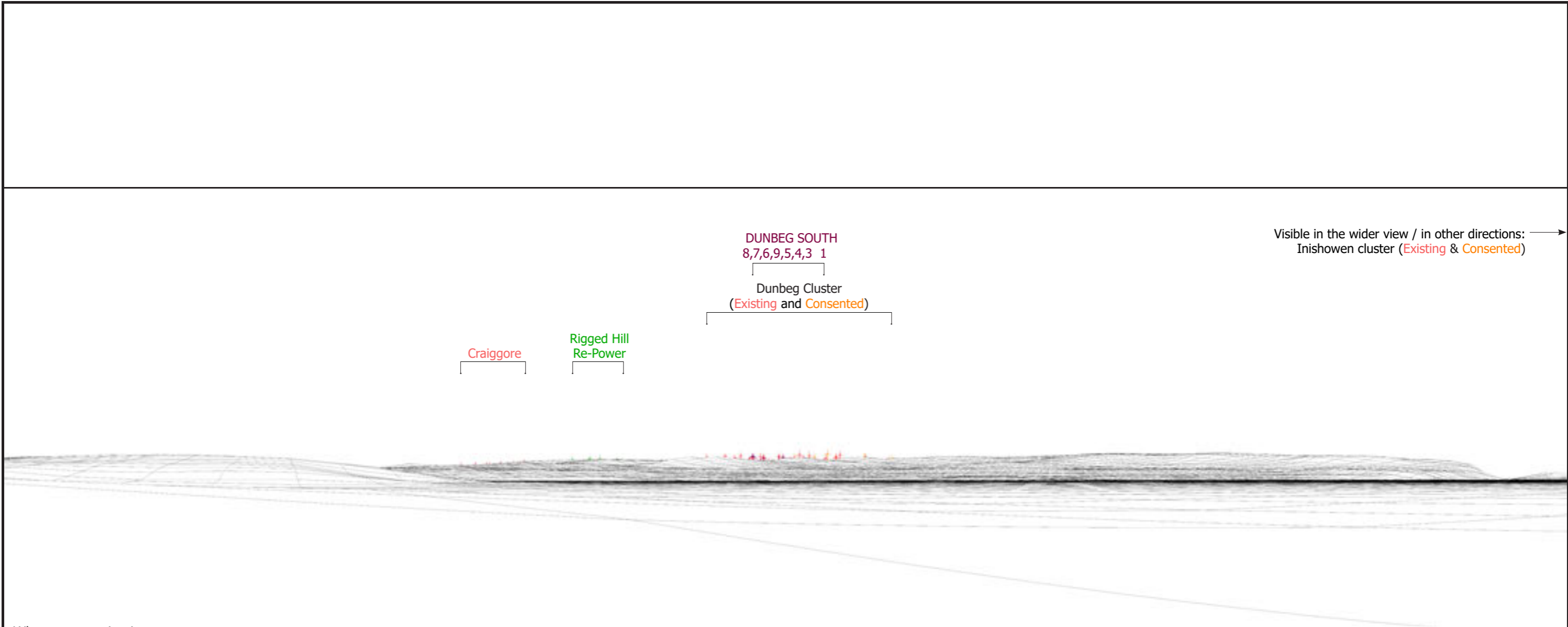




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<p>LANDSCAPE AND VISUAL IMPACT ASSESSMENT</p> <p>DRAWN / APPROVED: SMc / EC DATE: April 2022 PRINT SIZE: A3 REVISION: A</p>		<p>NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix 4.2, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.</p>		



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**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.39
COMPARATIVE WIRELINE: VIEWPOINT 25
PORTSTEWART TOWN AT
PORTSTEWART POINT CAR PARK**

Easting:	281462
Northing:	438682
Elevation A.O.D	17 m
Bearing:	209.32 °
Approx. Included Angle:	80 °
Approx. distance to nearest turbine:	14.70 km to T9



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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.

← Visible in the wider view / in other directions:
 Carnogher Cluster (Existing and Consented)
 Long Mountain Cluster (Existing)

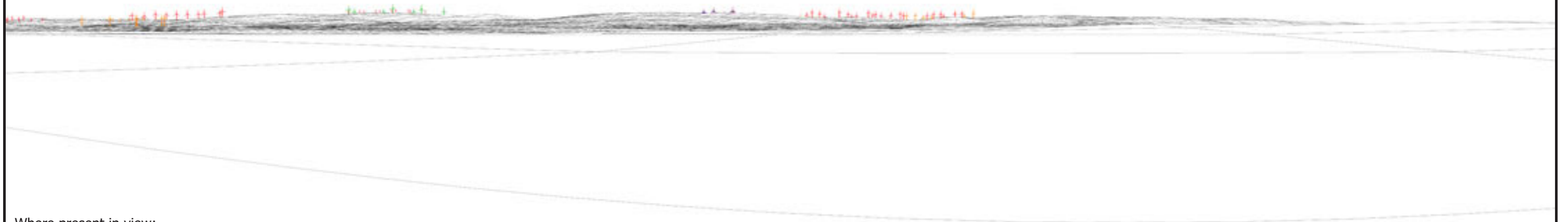
DUNBEG SOUTH
 order of turbines L-R: 6, 4, 7, 3, 8, 5, 9

Garvagh Cluster
 (Existing and Consented) & Cam Burn

Rigged Hill
 Rigged Hill Re-Power

Dunbeg Cluster
 (Existing and Consented)

Evishagaran



Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

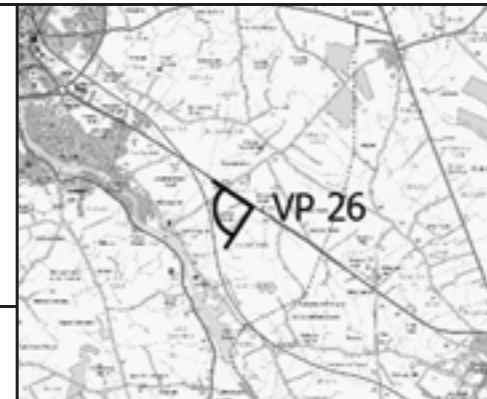
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**DUNBEG SOUTH WIND FARM
 PROPOSED ROTOR INCREASE**

**FIGURE 4.40
 COMPARATIVE WIRELINE: VIEWPOINT 26
 PARKING LAYBY ON A26 NEAR DAMHEAD
 (BELFAST-BOUND SIDE)**

Easting: 289409
 Northing: 429374
 Elevation A.O.D: 32 m
 Bearing: 254.91 °
 Approx. Included Angle: 75 °
 Approx. distance to nearest turbine: 15.36 km to T8

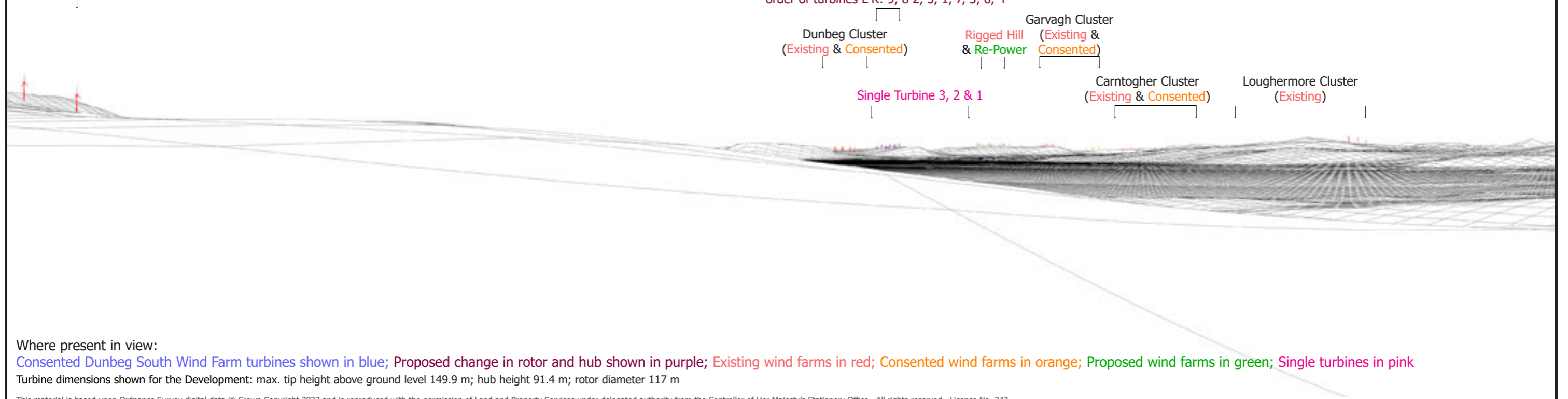


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NOTE: This Figure must be viewed in conjunction with the analysis of landscape and visual effects contained in Chapter 4 of the Environmental Statement and the detailed methodology for the preparation of visualisations contained in Technical Appendix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

Inishowen cluster
(Existing & Consented)



Where present in view:

Consented Dunbeg South Wind Farm turbines shown in blue; Proposed change in rotor and hub shown in purple; Existing wind farms in red; Consented wind farms in orange; Proposed wind farms in green; Single turbines in pink

Turbine dimensions shown for the Development: max. tip height above ground level 149.9 m; hub height 91.4 m; rotor diameter 117 m

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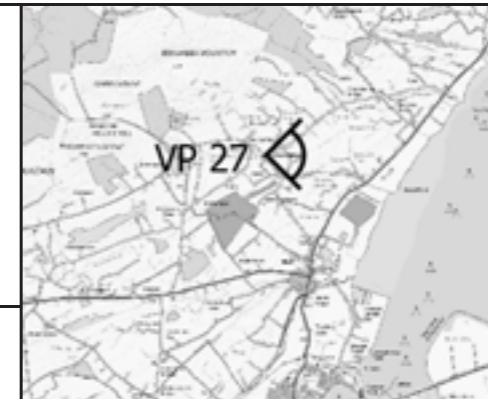
LANDSCAPE AND VISUAL
IMPACT ASSESSMENT

DRAWN / APPROVED:	DATE:	PRINT SIZE:	REVISION:
SMc / EC	April 2022	A3	A

**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.41
COMPARATIVE WIRELINE: VIEWPOINT 27
ESKAHEEN, INISHOWEN,
CO. DONEGAL**

Easting:	245770
Northing:	427105
Elevation A.O.D	113 m
Bearing:	93.90 °
Approx. Included Angle:	75 °
Approx. distance to nearest turbine:	27.36 km to T1



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




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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.



**DUNBEG SOUTH WIND FARM
PROPOSED ROTOR INCREASE**

**FIGURE 4.42
COMPARATIVE ZONE OF
THEORETICAL VISIBILITY,
CONSENTED VS. PROPOSED
HUB HEIGHT**

KEY

-  Dunbeg South proposed turbines
-  Viewpoint location
-  Theoretical hub height visibility of proposed scheme: 50.07 %
-  Additional hub height visibility of consented scheme: 1.33 %
- Total hub height visibility of consented scheme: 51.40%
-  Parts of Study Area with no visibility of the Development are unshaded: 48.60 %
-  Area of Outstanding Natural Beauty

Turbine dimensions illustrated:
consented hub height 100 m
proposed hub height 91.4 m

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.

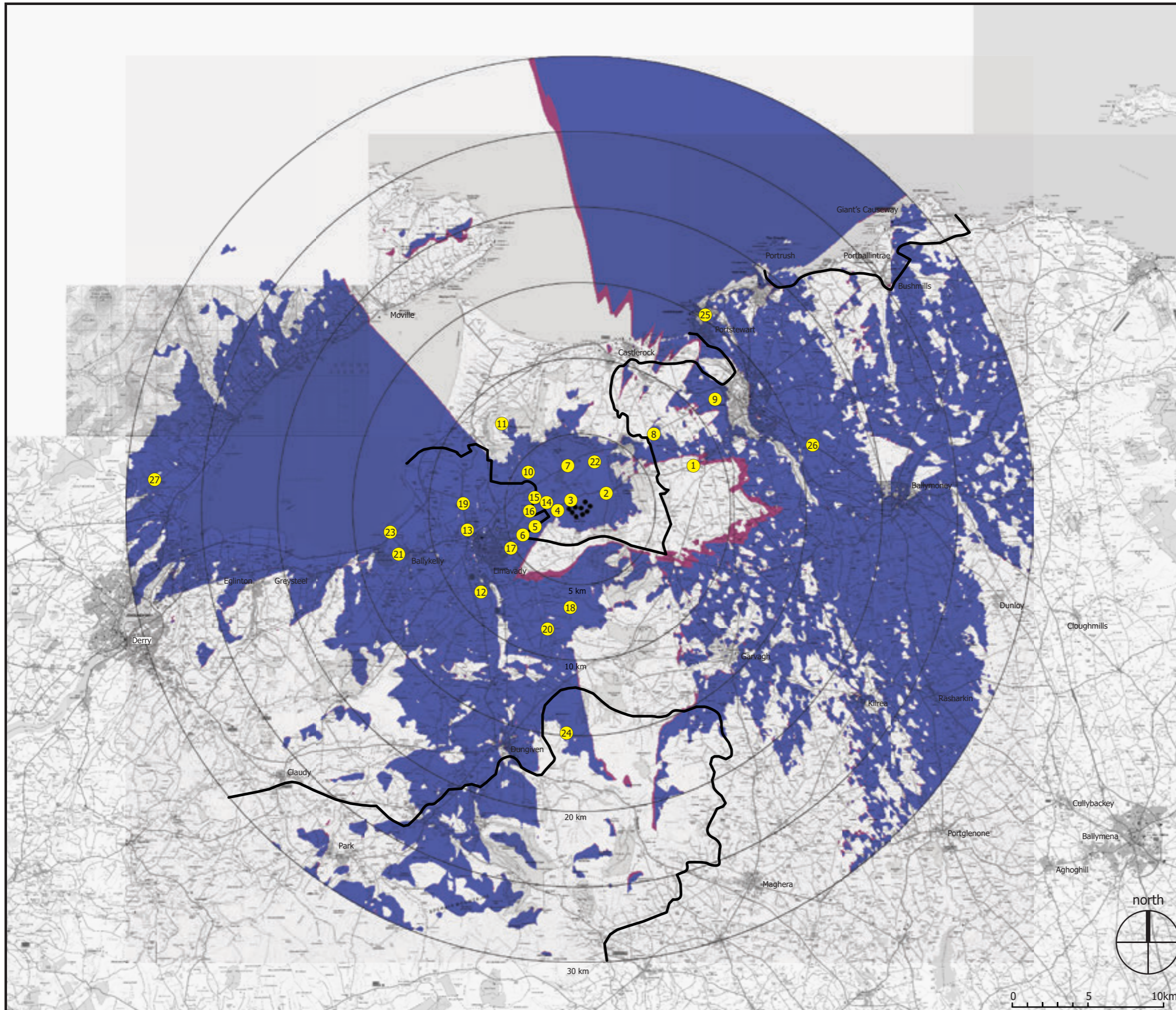
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Appendices



Appendix 1: Approval of Planning Permission



APPROVAL OF PLANNING PERMISSION

Planning Act (Northern Ireland) 2011

Application No: **LA01/2018/0200/F**

Date of Application: **26th January 2018**

Site of Proposed
Development:

Lands approx 6km N E of Limavady which are located immediately to the south of Broad Road (A37) in the Town land of Gortcorbies Co Derry/Londonderry. Access is provided directly from the Broad Road where an unoccupied stone building is located. The Western site boundary is located approx 1.2km east of Keady Hill Quarry and the eastern boundary is located approx 400m S W of disused quarry on Broad Road which is adjacent to Springfield Forest.

Description of Proposal:

Construction of a wind farm comprising 9 No. wind turbines (maximum 149.9 meters to blade tip) and associated infrastructure including external electricity transformers, crane hardstandings, underground cabling, control building, substation compound, newly created site entrance, new and upgraded on-site access tracks, turning heads and all other associated ancillary works. During construction and commissioning there will be a number of temporary works including a construction compound with car parking, temporary parts of crane hardstanding and welfare facilities.

Applicant: **Renewable Energy Systems Ltd**
Address: **Willowbank Business Park
Willowbank Road
Larne
BT40 2SF**

Agent:
Address:





Drawing Ref: 01 REV 1, 02, 03, 04 REV 1, 05, 06, 07 REV 1, 08 REV 1, 09 REV 1, 10 REV 1, 11 REV 1, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 REV 1, 25 REV 1, 26, 27, 28, 29, DOC 1, DOC 2, DOC 3, DOC 4
ES VOL 1, ES VOL 2, ES VOL 3, ES VOL 4, FEI VOL 1, 2, 3,

The Council in pursuance
of its powers under the above-mentioned Act hereby

GRANTS PLANNING PERMISSION

for the above-mentioned development in accordance with your application subject to compliance with the following conditions which are imposed for the reasons stated:

1. The development hereby permitted shall be begun before the expiration of 5 years from the date of this permission

Reason: As required by Section 61 of the Planning Act (Northern Ireland) 2011

2. The approved temporary compound shall be removed and the ground reinstated within 18 months from the date of the commencement of the development hereby approved. The measures for ground reinstatement shall be submitted to and agreed in writing with the Council prior to any reinstatement taking place.

Reason: In the interests of visual amenity.

3. All above ground structures shall be dismantled and removed from the site 30 years from the date when the wind farm is commissioned to the electricity grid or shall be removed if electricity generation has ceased on site for a period of 12 months (unless further consent has been granted). The land shall be restored in accordance with an agreed scheme to be submitted to the Council at least one year prior to the commencement of any decommissioning works. This scheme shall include details of all works and measures to restore the site, the timeframe within which the works shall be carried out along with proposals for aftercare for a period of 3 years after completion of the restoration works.

Reason: To ensure the development is decommissioned in a manner that protects the ecology and hydrology of the site beyond the life span of the windfarm.

4. There shall be no development hereby permitted commenced until the works necessary for the improvement of the public road as shown on Drawing Nos: 24 Rev 1 and 25 Rev 1 dated 9 March 2020 have been carried out to the satisfaction of the Council.

Reason: In the interests of road safety and the convenience of road users.





5. The area within the visibility splays and any forward sight lines shall be cleared to provide a level surface no higher than 250 mm above the level of the adjoining carriageway before the development hereby permitted becomes operational and shall be retained and kept clear thereafter.

Reason: To ensure there is a satisfactory means of access in the interests of road safety and the convenience of road users.

6. The gradients of the access shall not exceed 4% (1 in 25) over the first 10 metres outside the road boundary.

Reason: To ensure there is a satisfactory means of access in the interests of road safety and the convenience of road users.

7. Effective wheel washing facilities shall be installed and operated for the duration of the construction period and any repair or remedial work periods thereafter.

Reason: To prevent the carry-over of mud or debris onto the public road in the interests of road safety and convenience of road users.

8. Prior to the commencement of construction on site, the applicant/agent shall in association with DfI Roads Maintenance Section carry out a condition survey of all haul routes and shall at the applicant's expense carry out and provide to DfI Roads a DVD detailing the condition of the existing public roads being considered as haul routes.

Reason: In the interests of road safety and the convenience of road users.

9. During construction works, the applicant/agent shall carry out and record daily inspections of all haul routes and submit this information to the DfI Roads Section Engineer on a weekly basis.

Reason: In the interests of road safety and the convenience of road users.

10. Prior to the commencement of development an Article 11 application for the haulage routes and any associated traffic management proposals shall be submitted to and agreed in writing with DfI Roads.

Reason: In the interests of road safety and the convenience of road users.

11. Subject to the above conditions, the development shall be carried out in accordance with the stamped approved Drawing Nos: 24 rev1 and 25 rev1 dated 9 March 2020.

Reason: To ensure the development is carried out in accordance with the approved plans.



12. The model of the turbine to be installed, its noise specification, colour and finish, have been submitted to and approved in writing by the Council prior to the commencement of works.

Reason: To ensure that wind turbines with excessive sound power levels are not installed.

13. The developer shall notify the Council in writing of the date of commencement of works on site and of the date when the turbines have become fully operational.

Reason: To ensure compliance with appropriate conditions.

14. The level of noise immissions from the combined effects of the permitted wind turbines (including the application of any Tonal Penalty when calculated in accordance with the procedures described on pages 104 - 109 of ETSU-R-97 and any Amplitude Modulation penalty when calculated in accordance with the procedures described in condition 9) shall not exceed values set out in Table 1. Noise limits for any dwellings which lawfully exist or have planning permission for construction at the date of this consent but are not listed in Table 1 shall be represented by the physically closest location listed in Table 1 unless otherwise agreed by Causeway Coast and Glens Borough Council.

Table 1: Permitted Wind Farm Noise Limits dB LA90

ID 4 5 6 7 8 9 10 11 12

Property as identified within Section 10 Standardised wind speed at 10m height (m/s) within the site averaged over 10-minute periods

	4	5	6	7	8	9	10	11	12
H6	26.6	29.5	33.6	34.9	34.9	34.4	34.4	34.4	34.4
H7	28.5	31.4	35.5	36.8	36.8	36.3	36.3	36.3	36.3
H8	28.6	31.5	35.6	36.8	36.9	36.4	36.4	36.4	36.4
H9	27.5	30.4	34.5	35.7	35.8	35.3	35.3	35.3	35.3
H10	26.2	29.1	33.2	34.5	34.5	34.0	34.0	34.0	34.0
H11	24.7	27.6	31.7	32.9	33.0	32.5	32.5	32.5	32.5
H12	24.6	27.5	31.6	32.8	32.9	32.3	32.3	32.3	32.3
H13	24.2	27.0	31.1	32.4	32.4	31.9	31.9	31.9	31.9
H14	24.1	26.9	31.0	32.3	32.3	31.8	31.8	31.8	31.8
H15	24.7	27.6	31.7	32.9	33.0	32.5	32.5	32.5	32.5
H16	24.9	27.7	31.9	33.1	33.2	32.6	32.6	32.6	32.6
H17	24.5	27.4	31.5	32.8	32.8	32.3	32.3	32.3	32.3
H18	24.2	27.1	31.2	32.5	32.5	32.0	32.0	32.0	32.0
H19	24.5	27.3	31.5	32.7	32.8	32.2	32.2	32.2	32.2
H21	21.6	24.4	28.6	29.8	29.9	29.3	29.3	29.3	29.3
H22	21.3	24.1	28.2	29.5	29.6	29.0	29.0	29.0	29.0
H23	21.1	23.9	28.1	29.3	29.4	28.8	28.8	28.8	28.8
H24	21.0	23.8	28.0	29.2	29.3	28.7	28.7	28.7	28.7
H25	20.8	23.6	27.7	29.0	28.5	28.5	28.5	28.5	28.5
H26	22.3	25.2	29.3	30.5	30.6	30.0	30.0	30.0	30.0
H27	22.9	25.8	29.9	31.1	31.2	30.7	30.7	30.7	30.7





H28	22.7	25.5	29.6	30.9	31.0	30.4	30.4	30.4	30.4
H29	23.4	26.3	30.4	31.7	31.7	31.2	31.2	31.2	31.2
H30	23.4	26.3	30.4	31.6	31.7	31.1	31.1	31.1	31.1
H31	23.6	26.5	30.6	31.9	31.9	31.4	31.4	31.4	31.4
H32	22.8	25.7	29.8	31.1	31.1	30.6	30.6	30.6	30.6
H33	23.1	26.0	30.1	31.3	31.4	30.8	30.8	30.8	30.8
H34	23.1	26.0	30.1	31.3	31.4	30.9	30.9	30.9	30.9
H35	23.2	26.1	30.2	31.5	31.5	31.0	31.0	31.0	31.0
H36	23.1	25.9	30.0	31.3	31.4	30.8	30.8	30.8	30.8
H37	22.8	25.7	29.8	31.1	31.1	30.6	30.6	30.6	30.6
H38	22.8	25.6	29.8	31.0	31.1	30.5	30.5	30.5	30.5
H39	20.7	23.5	27.7	28.9	29.0	28.4	28.4	28.4	28.4
H40	21.8	24.7	28.8	30.0	30.1	29.5	29.5	29.5	29.5
H41	27.6	31.0	34.4	35.7	35.7	35.1	35.1	35.1	35.1

15. Within 6 months of the development first becoming fully operational (unless otherwise extended by the Council) the wind farm operator shall at their expense employ a suitably qualified and competent person to undertake a noise survey to assess the level of noise immissions from the wind farm. The duration of such monitoring shall be sufficient to provide comprehensive information on noise levels with all turbines operating across the range of wind speeds referred to in Condition 3 and covering a range of wind directions. Details of the noise monitoring survey shall be submitted to the Council for written approval prior to any monitoring commencing. The Council shall be notified not less than 2 weeks in advance of the date of commencement of the noise survey.

Reason: To assess compliance with noise immission limits as required by Condition No. 3.

16. Within 4 weeks of a written request by the Council, following a noise complaint from the occupant of a dwelling which lawfully exists or has planning permission at the date of this consent, the wind farm operator shall, at their expense employ a suitably qualified and competent person, to assess the level of noise immissions from the combined effects of the permitted wind turbines, at the complainant's property, following the procedures described in Pages 102-109 of ETSU-R-97 and if necessary, those described in condition 8. Details of the noise monitoring survey shall be submitted to Causeway Coast and Glens Borough Council for written approval prior to any monitoring commencing. Causeway Coast and Glens Borough Council shall be notified not less than 2 weeks in advance of the date of commencement of the noise monitoring.

Reason: To control the noise levels from the development at noise sensitive locations.





17. The wind farm operator shall provide to the Council the results, assessment and conclusions regarding the noise monitoring required by Conditions 15 and 16, including all calculations, audio recordings and the raw data upon which that assessment and conclusions are based. Such information shall be provided within 3 months of the date of a written request of the Council unless otherwise extended in writing by the Council.

Reason: To control the noise levels from the development at noise sensitive locations.

18. Wind speed, wind direction and power generation data shall be continuously logged throughout the period of operation of the wind farm. This data shall be retained for a period of not less than 12 months. The recorded wind data, standardised to 10m height above ground level and relating to any periods during which noise monitoring took place or any periods when there was a specific noise complaint, shall be provided within 3 months of the date of a written request of the Council unless otherwise extended in writing by the Council.

Reason: To facilitate assessment of monitoring exercises and complaint investigation.

19. Within 4 weeks from receipt of a written request from the Council, following an amplitude modulation (AM) complaint to it from the occupant of a dwelling which lawfully exists or has planning permission at the date of this consent, the wind farm operator shall submit a scheme for the assessment and regulation of AM to the Council for its written approval. The scheme shall be in general accordance with:

- Any guidance endorsed in National or Northern Ireland Planning Policy or Guidance at that time, or in the absence of endorsed guidance,
- Suitable published methodology endorsed as good practice by the Institute of Acoustics; or in the absence of such published methodology,
- The methodology published by Renewable UK on the 16th December 2013;

and implemented within 3 months of the written request of the Council unless otherwise extended in writing by the Council.

Reason: To control the levels of AM from the development at noise sensitive locations.

20. Construction work, which is audible at any noise sensitive property outside the site, shall only take place between the hours of 07.00 - 19.00 hours on Monday to Friday, 07.00 - 13.00 hours on Saturday with no such working on Sunday. Outwith these hours, work at the site shall be limited to turbine erection, testing/commissioning works, emergency works, or construction work that is not audible at any noise sensitive property.

Reason: To control noise levels from construction noise at noise sensitive locations.





21. No site works of any nature or development shall take place until a programme of archaeological work has been implemented, in accordance with a written scheme and programme prepared by a qualified archaeologist, submitted by the applicant and approved by the Council. The programme should provide for the identification and evaluation of archaeological remains within the site, for mitigation of the impacts of development, through excavation recording or by preservation of remains, and for preparation of an archaeological report.

Reason: to ensure that archaeological remains within the application site are properly identified, and protected or appropriately recorded.

22. Access shall be afforded to the site at all reasonable times to any archaeologist nominated by the Council to observe the operations and to monitor the implementation of archaeological requirements.

Reason: to monitor programmed works in order to ensure that identification, evaluation and appropriate recording of any archaeological remains, or any other specific work required by condition, or agreement is satisfactorily completed.

23. A Final Construction Environmental Management Plan (CEMP) must be submitted to the Council and NIEA Water Management Unit at least 8 weeks prior to the commencement of works on site. The CEMP should identify all potential risks and pollution pathways to the waterway, demonstrate adherence to good working practices as detailed in current guidance and detail all mitigation measures as detailed within Chapters 2, 6, 8 and 9 of Volume 2 of the Environmental Impact Statement and Appendix B of Volume 2 of the Further Environmental Information document, to be employed to minimise the risk of pollution to the waterways. The CEMP should also include:

- a. Location of all other pollution prevention measures on site;
- b. All potential in-water works including construction of surface water outfall structures;
- c. Detailed Drainage Plan designed to the principles of SuDs;
- d. Suitable evidence that an ECoW has been appointed to ensure that all pollution prevention measures proposed within the final CEMP are carried out to a satisfactory standard and adhered to throughout the construction phase.

Reason: To prevent any adverse effect to River Roe and Tributaries SAC from the proposed development.

24. No development activity, including ground preparation or vegetation clearance, shall take place until a final Construction and Environmental Management Plan (CEMP) has been submitted to and approved in writing by the Council. The approved CEMP shall be implemented in accordance with the approved details and all works on site shall conform to the approved CEMP, unless otherwise approved in writing by the planning authority. The CEMP shall include the following:

- a) Construction methodology and timings of works;





- b) Pollution prevention measures, including details of the establishment of buffer zones to watercourses and details of works on or adjacent to watercourses;
- c) Site Drainage Management Plan; including Sustainable Drainage Systems (SuDS), foul water disposal and silt management measures;
- d) Peat Management Plan; including identification of peat/spoil storage areas, management and handling of peat/spoil and details of the reinstatement of excavated peat/spoil;
- e) Details of grid connection route and proposed mitigation measures;
- f) Water Quality Monitoring Plan;
- g) Environmental Emergency Plan;
- h) Details of the appointment of an Ecological Clerk of Works (ECoW) and their roles and responsibilities;

Reason: To protect Northern Ireland priority/protected habitats and species, to ensure implementation of mitigation measures identified within the Environmental Statement and to prevent adverse impacts on the River Roe and Tributaries ASSI/SAC.

25. No development activity, including ground preparation or vegetation clearance, shall take place until a final Habitat Management Plan (HMP) has been submitted to and approved in writing by the Council. The approved HMP shall be implemented in accordance with the approved details, unless otherwise approved in writing by the Council. The HMP shall include the following:

- a) Clear aims and objectives of proposed habitat management/restoration;
- b) Description of pre-construction, baseline habitat conditions;
- c) Appropriate maps, clearly identifying habitat management areas;
- d) Detailed methodology and prescriptions of habitat management/restoration measures, including timescales, and with defined criteria for the success of the measures;
- e) Details of the prohibition of habitat damaging activities, including agricultural activities;
- f) Confirmation of landowner agreement with all proposed habitat management measures for the lifetime of the wind farm;
- g) Details of the regular monitoring of the effectiveness of habitat management measures using appropriate methodology (e.g. visual inspections, vegetation quadrats, fixed point photography) for the lifetime of the habitat management plan;

Reason: To compensate for the loss of and damage to Northern Ireland priority habitats and to mitigate for impacts to priority species/breeding birds.





26 Progress reports detailing the implementation and monitoring of the Habitat Management Plan shall be produced by a competent ecologist and submitted to the planning authority in years 1, 2, 3, 5, 10, 15, 20 and 25 after construction, within 6 months of the end of each monitoring year. These shall include details of any necessary contingency and/or remedial measures to ensure that the aims and objectives of the Habitat Management Plan are met.

Reason: To ensure proper implementation of the habitat management plan and make provisions for any necessary contingency and/or remedial measures.

27 No development activity, including ground preparation or vegetation clearance, shall take place until a Protected Species Management Plan (PSMP) has been submitted to and approved in writing by the Planning Authority. The approved PSMP shall be implemented in accordance with the approved details, unless otherwise approved in writing by the Planning Authority. The PSMP shall include the following:

- a) Details of the appointment of a competent ecologist as an Ecological Clerk of Works (ECoW), with the power to halt works, and their roles and responsibilities with regard to management of protected species;
- b) Details of a pre-construction survey for badgers to determine any changes to setts;
- c) Details of appropriate mitigation for protected species, particularly badgers, smooth newts and common lizards, to be implemented during the site preparation, construction and operational phases, including wildlife corridors, buffer zones and/or fencing;
- d) Details of appropriate monitoring of impacts to protected species during construction works;

Natural Heritage

e) Details of appropriate procedures/measures to be followed should monitoring indicate potential impacts to protected species and/or potential breaches of wildlife legislation;

Reason: To ensure protection of species protected by law.

28. There shall be no site clearance or development activity within 25 metres of badger sett A2, as detailed in the Confidential Badger Report, date stamped 26 April 2019 by the Council, until written evidence has been provided to the Council that badgers have been excluded and the setts have been closed under the terms of a licence issued by the Northern Ireland Environment Agency.

Reason: To protect badgers.

29. No development activity, including ground preparation or vegetation clearance, shall take place between 1st March and 31st August until an Ornithological Mitigation Strategy (OMS) has been prepared by a suitably experienced and competent ornithologist and approved in writing by the Council. The





approved OMS shall be implemented in accordance with the approved details, unless otherwise approved in writing by the Planning Authority. The OMS shall include:

- a) Details of the appointment of a suitably experienced and competent ornithologist, with the power to halt works, to supervise works during the bird breeding season;
- b) Details of the timing of ground preparation and vegetation clearance to avoid disturbance to breeding birds;
- c) Details of pre-construction bird surveys and appropriately timed bird surveys to be conducted throughout the construction phase;
- d) Details of appropriate mitigation measures to be implemented before and during the construction phase, including identifying the location of any recorded active nests or breeding activity, the establishment of species specific buffer zones to active nests or breeding territories (to be agreed with NIEA), temporarily halting works to avoid disturbance to breeding birds;
- e) Provisions for the reporting of the implementation of the OMS to the Council at the end of each bird breeding season during which works take place.

Reason: To protect breeding birds during the construction phase.

30 No development activity, including ground preparation or vegetation clearance, shall take place until an Ornithological Monitoring Plan (OMP) has been prepared by a suitably experienced and competent ornithologist and approved in writing by the Planning Authority. The approved OMP shall be implemented in accordance with the approved details, unless otherwise approved in writing by the Council. The OMP shall include:

- a) Details of a programme of long term monitoring of breeding and wintering birds, covering breeding and non-breeding seasons, using appropriate survey methodology, in the first survey period after construction is completed (year 1) and in years 2, 3, 5, 10 and 15 thereafter. Surveys shall target hen harrier, kestrel, snipe and red grouse but shall also record numbers and distribution of any other breeding wader species, meadow pipit and skylark;
- b) Provisions for the implementation of contingency mitigation measures should monitoring reveal significant impacts on birds;

Natural Heritage

- c) Details of the production of monitoring reports which shall be submitted to the Council within 6 months of the end of each monitoring year and which shall include details of any contingency mitigation measures implemented.

Reason: To monitor and mitigate for the impact of the proposal on wild birds.





31. No turbine shall become operational until a Bat Mitigation and Monitoring Plan (BMMP) has been submitted to and approved in writing by the Council. The approved BMMP shall be implemented in accordance with the approved details, unless otherwise agreed in

writing by the Council. The BMMP shall include the following:

- a) Details of the proposed monitoring of bat activity across the site using appropriate methodology for a period of 5 years following the commencement of operation of the turbines;
- b) Details of bat carcass searches at selected turbines using appropriate methodology for a period of 5 years following the commencement of operation of the turbines;
- c) Details of the production of yearly monitoring reports to be submitted to the planning authority within 6 months of the end of each monitoring year;
- d) Provision for additional mitigation or contingency measures which may be deemed necessary depending on the results of the monitoring and which shall be implemented if instructed by the Planning Authority;
- e) Provision for review of the mitigation measures and the length of the monitoring plan;

Reason: To monitor the impact of the proposal on bats.

32. All turbine blades shall be feathered when wind speeds are below the cut in speed of the operational turbines. This shall involve pitching the blades to 90 degrees and/or rotating the blades parallel to the wind direction to reduce the blade rotation speeds below two revolutions per minute while idling.

Reason: To protect bats.

33. Not later than 12 months before the end of this permission a Decommissioning and Site Restoration Plan shall be submitted for the approval in writing of the Council. Such plan shall include the removal of above ground elements of the development to one metre below ground level, habitat restoration measures, including the reinstatement of access tracks, the management and timing of any works, environmental management provisions and a traffic management plan to address any traffic impact issues during the decommissioning period. The plan shall be implemented as approved within a time frame to be agreed with the Council.

Reason: To restore the site and protect the local environment beyond the lifetime of the permission.

34. Prior to the erection of any turbines, the developer shall commission an aviation consultant (approved by CODA) to revise all associated Instrument Flight Procedures (IFP) to illustrate a revised Low Holding Altitude of 2500 feet. The developer shall submit and have agreed in writing with the Council, the draft IFPs which will be updated in the UK Aeronautical Information Publication (AIP).





Reason: In the interest of flight safety

35. Prior to the erection of any turbines, the developer shall submit and have agreed in writing with the Council a scheme for the installation of aviation lighting. Upon erection of any of the turbines, the agreed lighting scheme shall be installed and operational for the lifetime of the turbines.

Reason: In the interest of flight safety

36. In the event that City of Derry Airport (CODA) have installed a contemporary radar system prior to any of the turbines hereby approved being erected then a Radar Mitigation Scheme (RMS) shall be agreed in writing with the Council. This scheme shall:

- Set out the appropriate measures to mitigate the impact of the development upon the operation of the installed CODA Air Traffic Control (ATC) radar and any ATC operation which are reliant on the radar.
- Set out the appropriate performance criteria to mitigate the impact of the development on the radar.

In the event that CODA (ATC) radar is installed prior to turbine erection, the turbines shall not become operational until all agreed measures and timescales within any previously agreed RMS have been implemented.

Reason: In the interest of flight safety

37. No development shall take place until details of accommodating storm water at the site access have been submitted to and approved in writing by the Council.

Reason: In the interest of road safety.

Informatives

1. This approval does not dispense with the necessity of obtaining the permission of the owners of adjacent dwellings for the removal of or building on the party wall or boundary whether or not defined.
2. This permission does not alter or extinguish or otherwise affect any existing or valid right of way crossing, impinging or otherwise pertaining to these lands.
3. This permission does not confer title. It is the responsibility of the developer to ensure that he controls all the lands necessary to carry out the proposed development.
4. This determination relates to planning control only and does not cover any consent or approval which may be necessary to authorise the development under other prevailing legislation as may be administered by the Council or other statutory authority.





**Causeway
Coast & Glens
Borough Council**

5. You should refer to any other general advice and guidance provided by consultees in the process of this planning application by reviewing all responses on the Planning Portal at <https://www.nidirect.gov.uk/articles/finding-planning-application>

Dated: 17th December 2020

Authorised Officer





Appendix 2: Updated version of Technical Appendix 4.5.1

Technical Appendix Table.4.5.1 Cumulative Developments (updated April 2022)

DUNBEG SOUTH WIND FARM: CUMULATIVE DATA 40KM

**distance from Dunbeg South to wind farms measured as distance from nearest turbine in cumulative wind farm and centre of DBS unless distance to a specific turbine in DBS is indicated (distance is shown between nearest turbines in both wind farms)*

No.	RESoft .wfl no.	Windfarm	status	turbine id's	Approx. distance from Dunbeg South (km)*	No. of turbines	Rotor	Hub	Tip Height	Visible from which shortlisted Viewpoints	Cluster of wind farms
1	29	Altahullion Phase I	Ex	t1-20	15.95	20	62	49	80	3, 4, 7, 10, 11, 14, 15, 16, 20, 22, 24,	Loughermore
2	29	Altahullion Phase II	Ex	t21-29	15.80	9	66	49	82		Loughermore
3	29	Altahullion Phase III	Ex	t30-41	16.00	12	82.4	60	101.2		Loughermore
4	30	Aught	Cons	t80 - 93	28.10	14	71	65	100.5	2, 3, 4, 6, 11, 14, 15, 16, 18, 21, 22, 23, 24, 25, 27	Inishowen
5	30	Ballyhanedin	Cons	t94-t101	21.74	8	82	85	126	3, 4, 7, 10, 11, 14, 15, 16, 18, 20, 22, 24, 27	not in a cluster
6	29	Brockaghboy	Ex	t51-65	16.07	15	93	80	126.5	1, 8, 9, 12, 24, 26, 27	Carntogher
7	29	Brockaghboy Extension	Ex	t66-69	15.69	4	93	80	125		Carntogher
8	30	Cam Burn	Cons	t2-7	8.5 km to T8	6	71	85	120.5	9, 23, 24, 26,	not in a cluster
9	29	Carrickatane	Ex	t70-78	34.60	9	93	63.5	110	10,	Slieve Kirk
10	29	Cloonty	Ex	t241-244	24.82	4	80	70	110		not in a cluster
11	30	Corlacky Hill	Cons	t102-112	17.45	11	100	100	149.9	1, 8, 9, 12, 24, 26, 27	Carntogher
12	29	Craiggore	Ex	t245-254	7.73 km to T6	10	126	95	140	1, 9, 12, 15, 16, 19, 23, 24, 25, 26, 27	Garvagh
13	29	Crockahenny	Ex	t195-204	28.10	10	80	80	120	2, 3, 4, 6, 11, 14, 15, 16, 18, 21, 22, 23, 24, 25, 27	Inishowen
14	29	Curryfree	Ex	t89-94	33.37	6	80	60	100	10, 22, 24,	Slieve Kirk
15	29	Dunbeg	Ex	t95-108	1.35 km to T9	14	82	84	125	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 16, 17, 19, 21, 22, 23, 24, 25, 26, 27	Dunbeg
16	30	Dunbeg Ext.	Cons	t26-28	0.8 km to T9	3	82	84	125		Dunbeg
17	29	Dunmore	Ex	t109-115	2.25 km to T9	7	90	80	125		Dunbeg
18	30	Dunmore Ext.	Cons	t113 - 120	2.36 km to T9	8	90	80	125		Dunbeg
19	29	Eglish	Ex	t116-121	30.98	6	84	65	107	24,	Slieve Kirk
20	29	Evisagaran	Ex	t255-268	14.52	14	100	90	140	1, 9, 12, 16, 20, 24, 26, 27	Carntogher
21	29	Flaughland	Ex	t211-215	27.77	5	80	67	107	2, 3, 4, 6, 11, 14, 15, 16, 18, 21, 22, 23, 24, 25, 27	Inishowen
22	29	Garves	Ex	t125-129	26.30	5	90	75	120	24, 26	Long Mountain
23	29	Glackmore I & II	Ex	t216-217	27.82	2	71	65	100.5	2, 3, 4, 6, 11, 14, 15, 16, 18, 21, 22, 23, 24, 25, 27	Inishowen
24	29	Glenbuck I	Ex	t228	28.62	1	90	75	120	24, 26	Long Mountain
25	29	Glenbuck II	Ex	t269-271	27.89	3	83	68	109.5		
26	29	Glenconway	Ex	t130-137	14.86	8	82.4	70	111.2	3, 4, 7, 10, 11, 14, 15, 16, 20, 22, 24, 27	Loughermore
27	29	Long Mountain	Ex	t229-240	27.28	12	71	65	100	24, 26	Long Mountain
28	15	Monnaboy	Ex	t148-151	19.08	4	82.4	80	121.2	10, 11, 14, 15, 16, 22, 24, 27	Loughermore
29	29	Rigged Hill	Ex	t168-t177	4.29km to T6	10	37	39	56.5	1, 6, 9, 12, 13, 16, 18, 19, 20, 21, 23, 24, 26, 27	not in a cluster
30	31	Rigged Hill Re-Power	Prop	t98 - 104	4.03 km to T4	7	120	77	137	1, 6 -10, 12, 13, 16, 18 - 27	not in a cluster
31	29	Slieve Kirk	Ex	t178-189	30.46	12	82.4	68.3	110	10, 22, 24,	Slieve Kirk
32	29	Slieve Kirk Extension	Ex UC	t222-225	32.29	4	82.4	68.3	110		Slieve Kirk
33	30	Smulgedon	Cons	t68-74	10.05 km to T6	7	71	85	120.5	12, 19, 20, 23, 24, 26, 27	Garvagh
34	29	Three Trees	Ex	t226-227	27.20	2	71	74	109.5	2, 3, 4, 6, 11, 14, 15, 16, 18, 21, 22, 23, 24, 25, 27	Inishowen
35	19	Single Turbine 1	Exist or Cons	t1	3.30 km to T4	1	30	30	45	6, 12, 13, 16, 18, 19, 20, 21, 23, 24, 27	adjacent to ST 2
36	19	Single Turbine 2	Exist or Cons	t2	3.25 km to T4	1	30	30	45		adjacent to ST 1
37	19	Single Turbine 3	Exist or Cons	t3	0.49 km to T9	1	33.4	44.3	61	3, 7, 10, 13, 14, 15, 16, 19, 21, 22, 23, 27	Dunbeg



Appendix 3: Proposal of Application Notice, PAN1 Form

Official Use Only	
Reference No.:	
Associate Application No.:	
Registration date:	

Proposal of Application Notice

Planning Act (Northern Ireland) 2011
 Planning (General Development Procedure) Order (Northern Ireland) 2015

To be completed for all developments within the major category of development

Please note that when you submit this form the information, including plans, maps and drawings, will appear on the Planning Register which is publicly available and, along with other associated documentation (with the exception of personal telephone numbers, email addresses or sensitive personal data), will also be published on the internet on the Public Access site (<http://epicpublic.planningni.gov.uk/publicaccess/>). The Department for Infrastructure and the 11 Councils will process your information in line with the General Data Protection Regulations (GDPR) requirements. A copy of the full Privacy Statement is available at www.infrastructure-ni.gov.uk/dfi-privacy. To request a hard copy, please contact the relevant Data Protection Officer as listed in the statement.

1a. Applicant's name and address

1b. Agent's name and address (if applicable)

Name:		Name:	
Address:		Address:	
Town:		Town:	
Postcode:		Postcode:	
Tel:		Tel:	
E-mail:		E-mail:	

2. Address or Location of Proposed Development Please state the postal address of the prospective development site. If there is no postal address, describe its location. Please outline the site on an OS base plan and attach it to this completed notice.

3. What is the area of the site in hectares?

4. Description of Proposed Development Please describe the development to be carried out, outlining its characteristics. Please also enclose appropriate drawings, including: plan, elevations and site layout of the proposal.

5. What is the total gross floorspace of the proposed development?

6. If the proposed development includes a renewable energy project, what is the total amount of power (in kilowatts or megawatts) expected to be generated per year?

7. Which type of planning permission does this Proposal of Application Notice relate to?

(Please tick)

Full planning permission

Outline planning permission

8. Has a determination been made as to whether the proposed development would be of Regional Significance?

Yes

(Please enclose a copy of the determination made under Section 26 of the Planning Act (NI) 2011)

No

9. Has an Environmental Impact Assessment determination been made?

Yes

(Please enclose a copy of the determination made under Part 2 of the Planning [Environmental Impact Assessment] Regulations [NI] 2015)

No

10. Please give details of proposed consultation

Proposed public event	Venue	Date and Time
Name of publication(s) used:		
Proposed newspaper advert date(s):		
Please specify details of any other consultation methods including distance from site for notifying neighbouring properties (e.g. 100m, 200m etc) and method of notification (please include date, time and with whom):		
Details of any other publicity methods (such as leaflets, posters, etc):		

11. Please state which other parties have received a copy of this Proposal of Application Notice (Please continue on a separate sheet if necessary)

Elected member(s) for District Electoral Area All Causeway Coast and Glens Borough Council Councillors	Date notice served 14th February 2022
Other	Date notice served

12. Council Employee / Elected Member Interest

Are you / the applicant / applicant's spouse or partner, a member of staff within the council or an elected member of the council?

Yes No

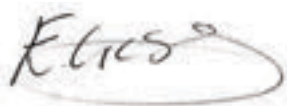
Or are you / the applicant / the applicant's spouse or partner, a relative of a member of staff in the council or an elected member of the council or their spouse or partner?

Yes No

If you have answered yes, please provide details (name, relationship and role):

--

13. Declaration

Signature:	
Print name:	Ellen Cross
Date:	7th February 2022

PLEASE NOTE: A planning application for this development cannot be submitted less than 12 weeks from the date the Proposal of Application Notice is received and without the statutory requirements having been undertaken. The application must be accompanied by the Pre-Application Consultation report.

We will respond within 21 days of receiving the Notice. We will confirm whether the proposed pre-application community consultation is satisfactory, or if additional notification and consultation is required. The minimum statutory consultation activity includes holding one public event and its advertisement in a local paper. We also require this Notice to be sent to local councillors for the District Electoral Area in which the proposed development is situated, and evidence of additional publicity of the event.



Appendix 4: Information Leaflet

DUNBEG SOUTH WIND FARM

MARCH 2022



The Dunbeg South Wind Farm located on lands immediately to the south of Broad Road (A37), in the townland of Gortcorbies, approximately 6 kilometres north east of Limavady, received planning consent in December 2020.

To enable RES to take advantage of modern turbine technology, and optimise the clean, low cost electricity the wind farm would be capable of generating, we propose to submit a planning application to increase the turbine rotor size.

HAVE YOUR SAY

We will be launching an Online Public Exhibition on Tuesday 29th March, to inform the local community about the new application and gather comments on the proposal. Hard copies of materials will be available upon request by calling 02828 440 580. The event will be hosted on the website at www.dunbegsouth-windfarm.co.uk.



Comments forms will be available on the website from the day of the exhibition and can be submitted via the website stated above. Hard copies can be sent by post to the address overleaf. The online exhibition initiates a consultation period being run by RES to gather comments on the proposal. The closing date for comments is 22nd April 2022 by 5pm.

RES will be offering individual telephone or video call appointments between 10am - 2pm and 4pm - 8pm, on the day, for anyone wishing to discuss the proposal further or ask specific questions. Appointments should be booked in advance.

To book an appointment, for further information or to submit comments on the proposal please contact Ellen Cross at ellen.cross@res-group.com or by calling 07825 807 297.



*Please note that comments submitted to RES at the Online Public Exhibition are not representations to the determining authority (Strategic Planning Directorate Department for Infrastructure). There will be an opportunity to submit representations to the determining authority should a planning application be submitted.

DUNBEG SOUTH WIND FARM AT A GLANCE



The consented Dunbeg South Wind Farm comprises 9 turbines. The new application will seek to increase the rotor diameter but there would be no increase to the consented turbine tip height.

It is anticipated that the consented project would be capable of generating approximately 29.7 megawatts (MW) of clean, low-cost electricity. The increased rotor diameter would allow for optimisation of power generation to 37.8 megawatts (MW).

RES IN NORTHERN IRELAND

RES is the world's largest independent renewable energy company with operations across Europe, the Americas and Asia-Pacific. At the forefront of renewable energy development for 40 years, RES has developed and/or built more than 22GW of renewable energy capacity worldwide.

RES has been building wind farms across the island of Ireland since the early 1990s and from our office in Larne, Co. Antrim we have a team of over 20 working across a range of disciplines. In Northern Ireland, RES has developed and/or built twenty-two wind farms equating to nearly 250MW and currently operates over 112MW of wind projects.

RES has a proven track record of using local contractors to maximise inward investment as demonstrated at the newly constructed Craiggore Wind Farm, near Limavady, where 16 NI based contractors were used during the construction phase. Dunbeg South Wind Farm could deliver £7.8 million into the local economy in the form of jobs, employment and use of local services.



Ellen Cross
Development Project Manager
✉ ellen.cross@res-group.com
☎ 07825 807 297



Carey Green
Community Liaison Officer
✉ carey.green@res-group.com
☎ 01872 226 931

Willowbank Business Park, Millbrook, Larne, County Antrim, BT40 2SF

If you require information in Braille, large text or audio, please let us know.

Appendix 5: Public Notice Advertisement- Week commencing - Monday 14th March 2022

We accept Mastercard,
Visa, Delta & Switch



Classified

Classifieds @ thechronicle.co.uk

Buying or selling, classified advertising works

COLERAINE Tel: 028 7034 3344
BALLYMONEY Tel: 028 2766 2354
LIMAVADY Tel: 028 7776 2130
BALLYCASTLE Tel: 028 2076 1282

For Sale

B E E S W A X ANTIQUES. 8a Church Street, Kilrea. Antiques bought and sold, house, yard clearances, garden furniture etc. Tel 028-295-41104 or 07936-241-220.

HOUSEHOLD CLEANER

wanted (Glack). We are searching for a weekly cleaner to help maintain a family home. They will be responsible for hoovering, cleaning shower, bath, sink, kitchen surfaces and mopping. Help to make beds, iron and fold clothes also. Contact Suzie: 0789-9703-205.

RUMMAGE BARN, Bridge Street, Kilrea. Open Saturday only, 8.30-4.30pm. Tools, Box Lots, Bric-A Brac, etc. You'll love this old stuff! Also wanted House and Garage Contents. Tel 07845-286-440.

QUANTITY of fitted bedspreads, matching sheet and pillowcases, good condition, £150, wallpaper £1 per roll, curtains from £2 per pair; gents sheepskin coat, size 44, £20; ladies wool coat, size 16, £15; 300 glass jars, £10. Tel. 0774-5584-639.

Garden Maintenance

EXPERIENCED GREENKEEPER Available for various garden maintenance services. Tel.077-1620-6077

GRASS Cutting Hedge Cutting Coleraine Portrush Portstewart Ballymoney Bushmills Ballycastle.Areas Call 028-7051-0751.

Gardening

4 SEASONS LAWN-CARE& Landscaping, grass cutting, hedge trimming, leaf clearance, tidy-ups, power-washing, hedge planting and removal, bush cutting, fencing, decking and paving, mulching, lawn reseeding and scarifying, fully insured, no job too big or small, free quotations. Tel 07817567274. Still open for business

A1 tree cutting and pruned, hedges cut and trimmed, grass, general tidy up, free quotes. Tel 078-5751-3133.

GRASS CUTTING, hedge cutting, power washing, fences, decking, general tidy ups. Portrush and surrounding areas. 07564-209-093.

BALLYGARVEY Tree Services. All trees and hedges cut, trimmed and tidied, cherry-picker available, free estimates, fully qualified/insured. Tel:028-2564-3026.

Painting & Decorating

PAINTER AND DECORATOR Interior and exterior. 30 years in the trade. Tel: 075-9884-0958

PAINTING - Interior & Exterior. Quality workmanship carried out. Call Ian Kane 077-5234-5862

INTERIOR painting, free estimates. Call 02870356269 or mobile 07887590185.

Furniture

SECOND LOOK WANTED, We buy good quality furniture, leather/fabric suites, tables, chairs, bedroom/occasional furniture, lamps, mats, mirrors, pictures, bric-a-brac, home-ware. Also ladies clothing, shoes, handbags, jewellery, house clearances, etc. Call in or Tel.Harry 078-3379-7346/075-9488-6309 Lynne, Ballymoney.

SECOND LOOK WANTED Garden Furniture/Tools/Equipment. Also Electrical Appliances/Homewares. Tel.Harry 078-3379-7346/075-9488-6309 Lynne.

HERBALIFE. Lose weight, Feel great and Be Healthy. Weight loss. Extra energy. Digestive cleansing and Health nutrition. "Take care of your body it's the only place you live". For your free product brochure to better health and well-being. Tel or Text: 07895-751564.

Social & Personal

COMPANION REQUIRED FOR ELDERLY GENTLEMAN IN CASTLEROCK 2 hours daily, to cook evening meal and light household duties. Tel Trevor 07710631500

It pays to advertise

Pets

BLACK TOY POODLE PUPS Vaccinated and wormed and vet checked. Price £500. Telephone: 079-0456-0382

MINIATURE SCHNAUZER Pups, KC Registered, for sale. Tel 07526-457-865.

BLACK LABRADOR pups for sale, male/female, ready to go, vet checked, 1st vaccination, 8 weeks old, £395. Tel 078-4261-2769.

Removals

MOVE-N-IT Removals & Storage. Professional service, fully insured. Local & Cross Channel. Tel 075-407-06168.

Wanted

WANTED Vintage guitars, amplifiers and effect units, cash paid. Tel 077-5207-7495.

WANTED storage for boating trailer, 25ft(L) x 8ft (W) x 7ft(H), going rates paid. Tel. Mick 0774-3460-111.

ALL scrap wanted Cars, vans, lorry's, 4x4's All paperwork taken care off Top prices paid. Tel. 0771-6306-538.

FLINTLOCK PRE-CUSSION obsolete calibre guns, bayonets, WW1 medals, death pennies, bandoliers, barber knives etc. Tel 07703-193-268.

WANTED, BANGOR BLUE SLATES and roofs for stripping. Top cash prices and fully insured. Telephone O'Kane Reclamation on 028-7084-9024 or 079-4736-7735

Pets

Power Washing

AT-S.J.H.-PRESSURE-CLEANING: Tarmac/brick driveways/concrete yards/walls, PVC/Guttering, Agricultural buildings cleaned. Fully insured. Contact Uel Hutchinson. Tel.028-2957-1432 Mob.077-5230-3858.

Poultry

HENS.'N'.HUTS. Vaccinated Brown Pullets point of lay, Black, Bluebells, Sussex Amber, Hens, Delivery available. Tel.079-3157-4240.

Tuition

PROFESSIONAL TUTOR Transfer Tests, Maths, English, ICT. www.colerainetutor.co.uk Tel. 0770-9092-746.

Firewood

TURF £4.00, BLOCKS £4.50. FREE DELIVERY FOR 10+ BAGS. TEL:07563-590-165 OR 07746-122-257.

Motoring

MOTORS WANTED All types of vehicles, MOT failures, non runners, scrap, anything considered. Immediate collection, top prices paid, all paper work filled in. Ring 07592-856-381.

Services Guide

EXPRESS WINDOW CLEANING, high reach system using pure water. Streak free shiny results. Reliable regular service. Portrush and surrounding areas. 07564-209-093

DOMICILIARY HOME SUPPORT and respite sitting. Experience/references available. Tel.077-1620-6077

M. LENNON PLASTERING - All types of plastering work undertaken, old wallpaper stripped off and walls skinned smooth. Tel. 07739-765-702.

AAA-AERIAL AND Satellite Services. 25 years experience, all work guaranteed. Tel 07788-905-732 or 028-2954-1717.

LARISA'S CLEANING SERVICES Award Winning House-keeping experience, Domestic/End of Tenancy cleans. Tel.0788-5658-887.

HOUSE CLEARANCES, dump runs, waste removal; household, rubble, garden waste. Portrush and surrounding areas. 07564-209-093

Roofing Services. Specialists in flat roofing, new roofs, repairs and maintenance, over 30 years experience. Insured and all work guaranteed. Tel 028-2564-5383 or 077-5995-0498.

DUMP RUNS Household rubbish, garages, gardens tidied up, all types of rubbish removal. For free quote Tel. Brian 0792-805-0678.

MOSS BUSTERS All types of roofs cleared, UPVC guttering, fall pipes etc. We specialise in moss removal. For free quote Tel. Brian 0792-805-0678.

FULLY QUALIFIED PLUMBER. No job too big or small, 24hr service, can flush heating system to save 30% on your oil bills. Tel.0793-3620-782.

LEAKING ROOFS SOLVED We specialise in roof repairs, all types of roofs repaired or replaced, slates, tiles, ridge tiles, lead and chimney work flat roofs repaired. For free quote Tel. Brian 0792-805-0678.

1A-ADAMS POWER-SWEEPING, ultimate chimney cleaning, rotation brush and vacuum, no mess, no fuss. Call Adam on:079-6121-8895.

JOINER/HANDYMAN- with 35 years experience, professional service. Floors, doors, tiling and fencing. All types of home maintenance. Keen rates. Tel: Willie 0783-5877-780 or 028-207-69686.

KITCHEN FACELIFTS Re-Dooring and work on replacements. Quality complete kitchens. Credit Cards accepted. FREE No obligation home call-out. Call or text Raymond 07490-666-645.

Appointments

RVCEF is creating a pool of self-employed integrative counsellors to deliver programmes which support the wellbeing of those within the Roe Valley area.

If you are suitably qualified and would like to work in a role which benefits those within our community please forward your CV detailing your relevant experience to: info@rvcef.org

Essential Criteria

- A minimum of Level 4 Therapeutic Counselling qualification including 100 hours placement and a minimum of 100 hours post qualification.
- Membership of BACP
- Professional Insurance
- Experience of working with young people in a counselling/mentoring role preferably in an education setting
- Experience of managing programmes and working independently

Any counsellor successful in securing work for RVCEF will be required to complete NI Checks. Reference will be required.

Closing date: 22nd March 2022 at 5pm.

corrymeela

The Corrymeela Community is recruiting for the following posts:

Finance and Administration Assistant

- Fixed Term until 31st March 2024

30 - 37.5 hours per week (flexible hours would be considered)
Base: The Corrymeela Centre, Ballycastle

The post holder will be responsible for providing financial and administrative services in order to ensure effective, efficient and accurate financial and administrative tasks for Corrymeela and for funded projects.

This project has been part funded by the Community Foundation for Northern Ireland through the Department of Health Mental Health Fund



Cook - Permanent

16 - 30 hours per week (flexible hours would be considered)
Base: The Corrymeela Centre Ballycastle

The post holder will be responsible as part of the Kitchen Team to oversee the preparation, cooking and service of meals to our visitors.

Hospitality Support Assistant

- Permanent (37.5 hours per week)

Base: The Corrymeela Centre Ballycastle

As a busy 24 hour residential centre, Corrymeela has a duty of care through good working practices to provide the hospitality team with a consistent staff member as point of contact specifically during weekends and busy transitions. The post holder will assist the team through the weekend to deal with issues regarding security, maintenance, housekeeping, administrative tasks, and deal with any unexpected incidents such as ad hoc arrivals, fire alarms and first aid. This role will include staying residentially overnight at the Ballycastle Centre.

For full details on any of these vacancies and an application pack, please contact Fiona Campbell via email at finance@corrymeela.org
Closing date for all applications is Thursday 31st March 2022 at 12 Noon.

The Corrymeela Community is an Equal Opportunity Employer

Dunbeg South Wind Farm - ONLINE PUBLIC EXHIBITION



RES is consulting on plans for a new application, for the consented Dunbeg South wind Farm, located on lands immediately to the south of Broad Road (A37) in the townland of Gortcorbies, Co Derry/Londonderry, approx. 6km NE of Limavady, to increase the turbine rotor size.

We will be launching an Online Public Exhibition on **Tuesday 29th March**, to inform the local community about the new application and gather comments on the proposal. Hard copies of materials are available by calling RES on 02828 440 580.

The online event will be hosted at www.dunbegsouth-windfarm.co.uk. Comments forms will be available on the website from the day of the exhibition and can be submitted via the website stated above. Hard copies can be sent by post to the address below. The online exhibition initiates a consultation period being run by RES to gather comments on the proposal. The closing date for comments is **22nd April 2022 by 5pm**.

RES will be offering individual telephone or video call appointments between **10am - 2pm and 4pm - 8pm**, on the day, for anyone wishing to discuss the proposal further or ask specific questions. Appointments should be booked in advance.

To book an appointment, for further information or to submit comments on the proposal please contact Ellen Cross at ellen.cross@res-group.com or by calling **07825 807 297** or by post to RES, Willowbank Business Park, Millbrook, Larne, BT40 2SF.

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Classified

Classifieds @ thechronicle.co.uk *Buying or selling, classified advertising works*

COLERAINE	Tel: 028 7034 3344
BALLYMONEY	Tel: 028 2766 2354
LIMAVADY	Tel: 028 7776 2130
BALLYCASTLE	Tel: 028 2076 1282

Services Guide

For Sale

B E E S W A X ANTIQUES. 8a Church Street, Kilrea. Antiques bought and sold, house, yard clearances, garden furniture etc. Tel 028-295-41104 or 07936-241-220.

HOUSEHOLD CLEANER wanted (Glack). We are searching for a weekly cleaner to help maintain a family home. They will be responsible for Hoovering, cleaning shower, bath, sinks, kitchen surfaces and mopping. Help to make beds, iron and fold clothes also. Contact Suzie: 0789-9703-205.

RUMMAGE BARN, Bridge Street, Kilrea. Open Saturday only, 8.30-4.30pm. Tools, Box Lots, Bric-A Brac, etc. You'll love this old stuff! Also wanted House and Garage Contents. Tel 07845-286-440.

QUANTITY of fitted bedspreads, matching sheet and pillowcases, good condition, £150, wallpaper £1 per roll, curtains from £2 per pair; gents sheepskin coat, size 44, £20; ladies wool coat, size 16, £15; 300 glass jars, £10. Tel. 0774-5584-639.

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4 SEASONS LAWN-CARE & Landscaping, grass cutting, hedge trimming, leaf clearance, tidy-ups, power-washing, hedge planting and removal, bush cutting, fencing, deck and paving, mulching, lawn reseeding and scarifying, fully insured, no job too big or small, free quotations. Tel 07817567274. Still open for business

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INTERIOR painting, free estimates. Call 02870356269 or mobile 07887590185.

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SECOND LOOK WANTED Garden Furniture/Tools/Equipment. Also Electrical Appliances/Homewares. Tel.Harry 078-3379-7346/075-9488-6309 Lynne.

Personal

HERBALIFE. Lose weight, Feel great and Be Healthy. Weight loss. Extra energy. Digestive cleansing and Health nutrition. "Take care of your body it's the only place you live". For your free product brochure to better health and well-being. Tel or Tek: 07895-751564.

Social & Personal

COMPANION REQUIRED FOR ELDERLY GENTLEMAN IN CASTLEROCK 2 hours daily, to cook evening meal and light household duties. Tel Trevor 07710631500

It pays to advertise

Pets

BLACK TOY POODLE PUPS Vaccinated and wormed and vet checked. Price £500. Telephone: 079-0456-0382

MINIATURE SCHNAUZER Pups, KC Registered, for sale. Tel 07526-457-865.

BLACK LABRADOR pups for sale, male/female, ready to go, vet checked, 1st vaccination, 8 weeks old, £395. Tel 078-4261-2769.

Removals

MOVE-N-IT Removals & Storage. Professional service, fully insured. Local & Cross Channel. Tel 075-407-06168.

Wanted

WANTED Vintage guitars, amplifiers and effect units, cash paid. Tel 077-5207-7495.

WANTED storage for boating trailer, 25ft(L) x 8ft(W) x 7ft(H), going rates paid. Tel. Mick 0774-3460-111.

ALL scrap wanted Cars, vans, lorry's, 4x4's All paperwork taken care off Top prices paid. Tel. 0771-6306-538.

FLINTLOCK PRE-CUSSION obsolete calibre guns, bayonets, WW1 medals, death pennies, bandeliers, barber knives etc. Tel 07703-193-268.

WANTED, BANGOR BLUE SLATES and roofs for stripping. Top cash prices and fully insured. Telephone O'Kane Reclamation on 028-7084-9024 or 079-4736-7735

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Power Washing

AT-S.J.H.-PRESSURE-CLEANING: Tarmac/brick driveways/concrete yards/walls, PVC/Guttering, Agricultural buildings cleaned. Fully insured. Contact Uel Hutchinson. Tel.028-2957-1432 Mob.077-5230-3858.

Poultry

HENS.'N'.HUTS. Vaccinated Brown Pullets point of lay, Black, Bluebells, Sussex Amber, Hens, Delicately available. Tel.079-3157-4240.

Tuition

PROFESSIONAL TUTOR Transfer Tests, Maths, English, ICT. www.colerainetutor.co.uk Tel. 0770-9092-746.

Firewood

TURF £4.00, BLOCKS £4.50. FREE DELIVERY FOR 10+ BAGS. TEL: 07563-590-165 OR 07746-122-257.

Motoring

MOTORS WANTED All types of vehicles, MOT failures, non runners, scrap, anything considered. Immediate collection, top prices paid, all paper work filled in. Ring 07592-856-381.

EXPRESS WINDOW CLEANING, high reach system using pure water. Streak free shiny results. Reliable regular service. Portrush and surrounding areas. 07564-209-093

DOMICILIARY HOME SUPPORT and respite sitting. Experience/references available. Tel.077-1620-6077

M. LENNON PLASTERING - All types of plastering work undertaken, old wallpaper stripped off and walls skinned smooth. Tel. 07739-765-702.

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LARISA'S CLEANING SERVICES Award Winning House-keeping experience, Domestic/End of Tenancy cleans. Tel.0788-5658-887.

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Roofing Services. Specialists in flat roofing, new roofs, repairs and maintenance, over 30 years experience. Insured and all work guaranteed. Tel 028-2564-5383 or 077-5995-0498.

DUMP RUNS Household rubbish, garages, gardens tidied up, all types of rubbish removal. For free quote Tel. Brian 0792-805-0678.

MOSS BUSTERS All types of roofs cleared, UPVC guttering, fall pipes etc. We specialise in moss removal. For free quote Tel. Brian 0792-805-0678.

FULLY QUALIFIED PLUMBER. No job too big or small, 24hr service, can flush heating system to save 30% on your oil bills. Tel.0793-3620-782.

LEAKING ROOFS SOLVED We specialise in roof repairs, all types of roofs repaired or replaced, slates, tiles, ridge tiles, lead and chimney work flat roofs repaired. For free quote Tel. Brian 0792-805-0678.

1A-ADAMS POWER-SWEEPING, ultimate chimney cleaning, rotation brush and vacuum, no mess, no fuss. Call Adam on:079-6121-8895.

JOINER/HANDYMAN- with 35 years experience, professional service. Floors, doors, tiling and fencing. All types of home maintenance. Keen rates. Tel: Willie 0783-5877-780 or 028-207-69686.

KITCHEN FACELIFTS Re-Dooring and work on replacements. Quality complete kitchens. Credit Cards accepted. FREE No obligation home call-out. Call or text Raymond 07490-666-645.

Appointments

RVCEF is creating a pool of self-employed integrative counsellors to deliver programmes which support the wellbeing of those within the Roe Valley area.

If you are suitably qualified and would like to work in a role which benefits those within our community please forward your CV detailing your relevant experience to: info@rvcef.org

Essential Criteria

- A minimum of Level 4 Therapeutic Counselling qualification including 100 hours placement and a minimum of 100 hours post qualification.

- Membership of BACP
- Professional Insurance
- Experience of working with young people in a counselling/mentoring role preferably in an education setting
- Experience of managing programmes and working independently

Any counsellor successful in securing work for RVCEF will be required to complete NI Checks. Reference will be required.

Closing date: 22nd March 2022 at 5pm.

corrymeela

The Corrymeela Community is recruiting for the following posts:

Finance and Administration Assistant
- Fixed Term until 31st March 2024
30 - 37.5 hours per week (flexible hours would be considered)
Base: The Corrymeela Centre, Ballycastle

The post holder will be responsible for providing financial and administrative services in order to ensure effective, efficient and accurate financial and administrative tasks for Corrymeela and for funded projects.

This project has been part funded by the Community Foundation for Northern Ireland through the Department of Health Mental Health Fund

Cook - Permanent
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The post holder will be responsible as part of the Kitchen Team to oversee the preparation, cooking and service of meals to our visitors.

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For full details on any of these vacancies and an application pack, please contact Fiona Campbell via email at finance@corrymeela.org

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RES is consulting on plans for a new application, for the consented Dunbeg South wind Farm, located on lands immediately to the south of Broad Road (A37) in the townland of Gortcorbies, Co Derry/Londonderry, approx. 6km NE of Limavady, to increase the turbine rotor size.

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**Appendix 6: Public Notice Advertisement - week commencing - 3rd
April 2022**

We accept Mastercard,
Visa, Delta & Switch



Classified

Overleaf & Bedside as at

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148CC PETROL LAWNMOWER B&Q own make (MAC A-lister) good working order. £55. Black & Decker Flymo (electric) good working order. £35. Tel: 0739-709-6159.

Furniture

SECOND LOOK WANTED. We buy good quality furniture, leather fabric sofas, tables, chairs, bedroom/occasional furniture, lamps, plants, mirrors, pictures, bric-a-brac, home-wares. Also ladies clothing, shoes, handbags, jewellery, house clearances, etc. Call in or Tel: Harry 078-3379-7346/075-6485 6300 Lynne, Ballymoney.

SECOND LOOK WANTED Garden Furniture/Tools/Equipment. Also Electrical Appliances/Home-wares. Tel: Harry 078-3379-7346/075-9488-6300 Lynne.

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Gardening

4 SEASONS LAWN-CARES Landscaping, grass cutting, hedge trimming, leaf clearance, tidy-ups, power-washing, hedge planting and removal, bush cutting, fencing, decking and paving, mulching lawn reseeding and scarifying. Fully insured. No job too big or small. Free quotations. Tel: 07817567274. Still open for business.

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Equestrian

DONKEY FOR SALE, male, 2yrs old, has been castrated. William Graham. Tel: 0785-443-8829.

Garden Maintenance

GRASS Cutting Hedge Cutting Coleraine Portrush Portlerrish Ballymoney Bushmills Ballycastle Areas. Call 028-7051-0751.

Personal

HEALTH NUTRITION World leading provider in Health nutrition products and Weight loss management. Lose weight. Gain energy. Be healthy. For your free product brochure and price guide to better health and well-being. Text or Tel: 07895-751-564.

Pets

BICHON FRISE pups, 2 boys, 1 girl. Beautiful adorable pups from a loving home, pure pedigree, wormed and first set of injections, fantastic for children with allergies and loving companions, do not shed their coat. £1350, 7 weeks old, ready to go 3rd April. Tel: 07551-297-975.

BORDERDOODLE PUPS Beautiful litter of pups. First vaccination.

Fantastic pets and therapy dogs. Non casting. Price £250 Telephone: 079-7079-7367

Painting & Decorating

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PAINTING - Interior & Exterior. Quality workmanship carried out. Call Ivan Kane 077-5234-5662

PAINTING Interior painting, free estimates. Call 028-703-56269 or mobile 0788-7590-185.

Poultry

HENS 'N' HUTS. Vaccinated Brown Pullets point of lay. Blacks, Bluebellies, Sussex, Amber, Hen-Arks. Delivery available. Tel: 079-3157-4240.

Windows

COLERAINE Based PVC Maintenance Service. Do you have drafty windows, broken hinges or handles or steamed up units? I can fix! Call Russell 0754-3626-640.

N. H. WINDOW REPAIR. Window/door repair service, steamed units replaced. Also rebate wooden frames using double-glazing. ALL types of glass supplied. Tel: 078-4530-5664 Hugh

It pays to advertise

Motoring

MOTORS WANTED All types of motors, MOT failures, non runners, wanted anything considered. Top prices paid. All paper work filled out. Tel: 0799-2866-381.

Motoring

NORTH COAST CARS WANTED

IN ANY CONDITION CASH ON COLLECTION £80 to £5000

Tel. 079 9979 1965

Services Guide

Trades & Services

AAA-AERIAL AND Satellite Services. 25 years experience, all work guaranteed. Tel: John 07786-905-732 or 028-2954-1717.

FULLY QUALIFIED PLUMBER. No job too big or small, 24hr service, can flush heating system to save 30% on your oil bills. Tel: 0793-3620-762.

M. LENNON PLASTERING - All types of plastering work undertaken. Old wallpaper stripped off and walls skimmed smooth. Tel: 07739-785-702.

MOSS BUSTERS All types of roofs cleared, UPVC guttering, fall pipes etc. We specialise in moss removal. For free quote Tel: Brian 0792-805-0675.

MAINTENANCE MAN JOINERY, Tiling, Painting, Gutters & PVC Cleaned, Power-washing. Van and Trailer available for removals. Free estimates. Tel: 0780-1869-929 or 0798-6019-450.

Farming

30 ROUND BALES first cutilage for sale, Coleraine area. Tel: 07850-984-204

SUMMER GRAZING WANTED for ponies. Tel: 0782-7409-084.

Trades & Services

1A-ADAMS POWER-SWEEPING, ultimate chimney cleaning, rotation brush and vacuum, no mess, no fuss. Call Adam on 079-6121-8895.

LEAKING ROOFS SOLVED We specialise in roof repairs, all types of roofs repaired or replaced, slates, tiles, ridge tiles, lead and chimney work, flat roofs repaired. For free quote Tel: Willie 0783-5877-780 or 028-207-69686.

Trades & Services

JO Roofing Services. Specialists in flat roofing, new roofs, repairs and maintenance, over 30 years experience. Insured and all work guaranteed. Tel: 028-2564-5393 or 077-5995-0489.

JOINER/HANDYMAN with 35 years experience, professional service. Floors, doors, tiling and fencing. All types of home maintenance. Keen rates. Tel: Willie 0783-5877-780 or 028-207-69686.

Trades & Services

LARISA'S CLEANING SERVICES Award Winning House-keeping experience, Domestic End of Tenancy cleans. Tel: 0788-9658-887.

DUMP RUNS Household rubbish, garages, gardens tidied up, all types of rubbish removal. For free quote Tel: Brian 0792-805-0675.

Wanted

GOLD WANTED All gold sovereigns, gold chains, gold rings, gold pocket watches, any solid gold items considered, damaged or not, highest prices paid, strictly confidential. Tel: 0792-2744-300 for your cash quote.

RECORDS WANTED. LPs from the 60's, 70's, 80's, 90's. Rock, Punk, Soul, New Wave, Beatles etc. Tel: 07554-551-568.

WANTED, BANGOR BLUE SLATES and roofs for stripping. Top cash prices and fully insured. Telephone: O'Kane Reclamation on 028-7084-9024 or 079-4736-7735

It pays to advertise

Property

mrafee Ballycastle
Online Sale of Antique and General Furnishings
The Basement Rooms
Thursday 21st April @ 6.30pm



An interesting mix of antique and general furnishings, paintings, collectibles including crystal, Lladros, Doulton, tea and dinner sets, piths, nags, wall and mantle clocks, mirrors etc.

View catalogue on easytyle auctions, when you may watch the sale live and bid live on the evening of the sale. View our virtual tour on MoAise Auctions website.

Viewing Centre Tuesday and Wednesday 10am and 20th April 2:00 - 5:00 and 6:30 to 8:00pm

easytyle Auction



(028) 2766 76-80
Catalogue online shortly at
www.mrafee.com

Dunbeg South Wind Farm - ONLINE PUBLIC EXHIBITION AND CONSULTATION



RES is consulting on plans for a new application, for the consented Dunbeg South Wind Farm, located on lands immediately to the south of Broad Road (A37) in the townland of Gortoorlies, Co Derry/Londonderry, approx. 6km NE of Limavady, to increase the turbine rotor size.

We launched an Online Public Exhibition on Tuesday 29th March, to inform the local community about the new application and gather comments on the proposal. Hard copies of materials are available by calling RES on 02828 440 580.

The online event is hosted at www.dunbegsouth-windfarm.co.uk. Comments forms are available on the website and can be submitted via the website stated above. Hard copies can be sent by post to the address below. The online exhibition initiates a consultation period being run by RES to gather comments on the proposal. The closing date for comments is 22nd April 2022 by 5pm.

For further information or to submit comments on the proposal please contact Ellen Cross at ellen.cross@res-group.com or by calling 07825 807 247 or by post to RES, Willowbank Business Park, Millbrook, Larne, BT40 2SF.

Please note comments made to RES during the consultation period are not representations to the Determining Authority (Causeway Coast and Glens Borough Council). There will be opportunity for representations to be made to the Determining Authority following submission of an application, at which stage the planning application will be formally advertised by Causeway Coast and Glens Borough Council.

Appendix 7: Councillors contacted by RES

Councillor Name	Area Covered	Contact
Cllr Aaron Callan (DUP)	Limavady DEA	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Cllr Brenda Chivers (Sinn Fein)	Limavady DEA	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Cllr James Alexander McCorkell (Independent)	Limavady DEA	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Alderman Alan Robinson (DUP)	Limavady DEA	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Cllr Ashleen Schenning (SDLP)	Limavady Area	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Dr Caoimhe Archibald MLA (Sinn Fein)	East Londonderry	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Mr Maurice Bradley MLA (DUP)	East Londonderry	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Ms Cara Hunter MLA (Social Democratic and Labour)	East Londonderry	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Mr George Robinson MBE MLA (DUP)	East Londonderry	Advised on details of the Online public event & provided with contact details

		to get in touch with RES about any concerns.
Mr Claire Sudgen MLA (Independent)	East Londonderry	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.
Gregory Michael MP (DUP)	East Londonderry	Advised on details of the Online public event & provided with contact details to get in touch with RES about any concerns.



Appendix 8: Comment and Enquiry From

RES believes in meaningful and productive consultation and we aim to engage early with the local community and key stakeholders in order to facilitate constructive consultation. This helps to identify issues and concerns, as well as benefits and opportunities, which we can then consider when developing the design of the proposal.

Feedback from the local community is an important part of our pre-application consultation and we would be grateful if you could take the time to fill out this comments form with your feedback. The closing date for comments is **22 April 2022**. Comments will still be accepted after this date but may not be considered in relation to the design development.

Please note that comments submitted to RES at the Online Public Exhibition are not representations to the determining authority (Strategic Planning Directorate Department for Infrastructure). There will be an opportunity to submit representations to the determining authority should a planning application be submitted.

1.1 How did you find out about our online exhibition?

- Newsletter through the door
- Advert in local newspaper
- Project website - www.dunbegsouth-windfarm.co.uk
- Word of mouth
- Other (please specify)

1.2 Before visiting the online exhibition how would you describe your knowledge of the new application for Dunbeg South Wind Farm?

- Knew a lot
- Knew quite a lot
- Knew a little
- Knew very little
- Knew nothing at all

1.3 Having visited the online exhibition, to what extent do you feel you have increased your understanding about the new application for Dunbeg South Wind Farm?

- A lot
- Quite a lot
- A little
- Very little
- Nothing at all

1.4 Do you have any suggestions for ways in which we could have improved our online exhibition?

2 Climate change and renewables

2.1 Do you agree that we are facing a global climate change emergency?

- I strongly agree
- I agree
- I don't know
- I disagree
- I strongly disagree

If you disagree or strongly disagree please explain why:

2.2 Do you agree that generating electricity from renewable sources, and reducing our reliance on fossil fuels, can help towards tackling the issue of climate change?

- I strongly agree
- I agree
- I don't know
- I disagree
- I strongly disagree

If you disagree or strongly disagree please explain why:

2.3 Do you agree that we need to develop onshore wind farms to help reduce our carbon emissions?

I strongly agree

I agree

I don't know

I disagree

I strongly disagree

If you disagree or strongly disagree please explain why:

3 Dunbeg South Wind Farm

3.1 To enable RES to optimise the clean, low cost electricity the wind farm would be capable of generating, we propose to submit a planning application to increase the turbine rotor size. What do you think about the new application for Dunbeg South Wind Farm?

I am happy with the increased rotor diameter

I am neutral towards the increased rotor diameter

I have concerns about the increased rotor diameter

I don't like wind farms in general

Further comments:

3.2 Please provide us with any further suggestions or comments regarding the new application for Dunbeg South Wind Farm



4 Your details

Please provide your name and contact details below.

Your contact details will be treated by RES with the strictest of confidence, in line with the General Data Protection Regulations (GDPR) 2018. We may at times share your contact details, in confidence, with third parties who we employ to help process your comments or update you on the project and by providing your details below you consent to this. You may write to RES at any time to ask that your contact details be removed from our records and from any third parties we work with.

Name	
Email	
Address	

If you would like to be kept up to date with the project, please tick this box

Thank you for taking the time to complete this comments form, your feedback is important to us.



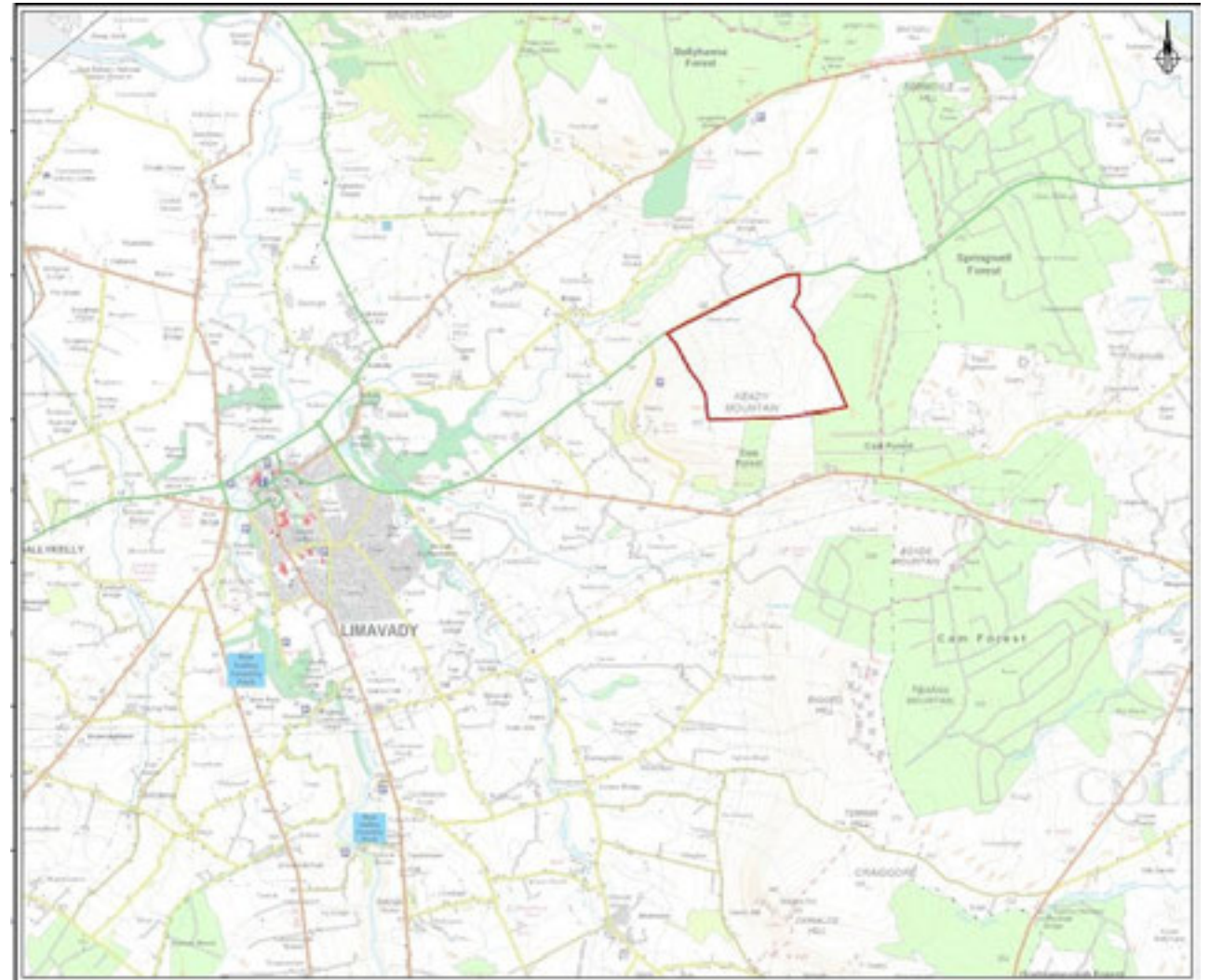
Appendix 9: Exhibition Materials

Dunbeg South Wind Farm



About the Project

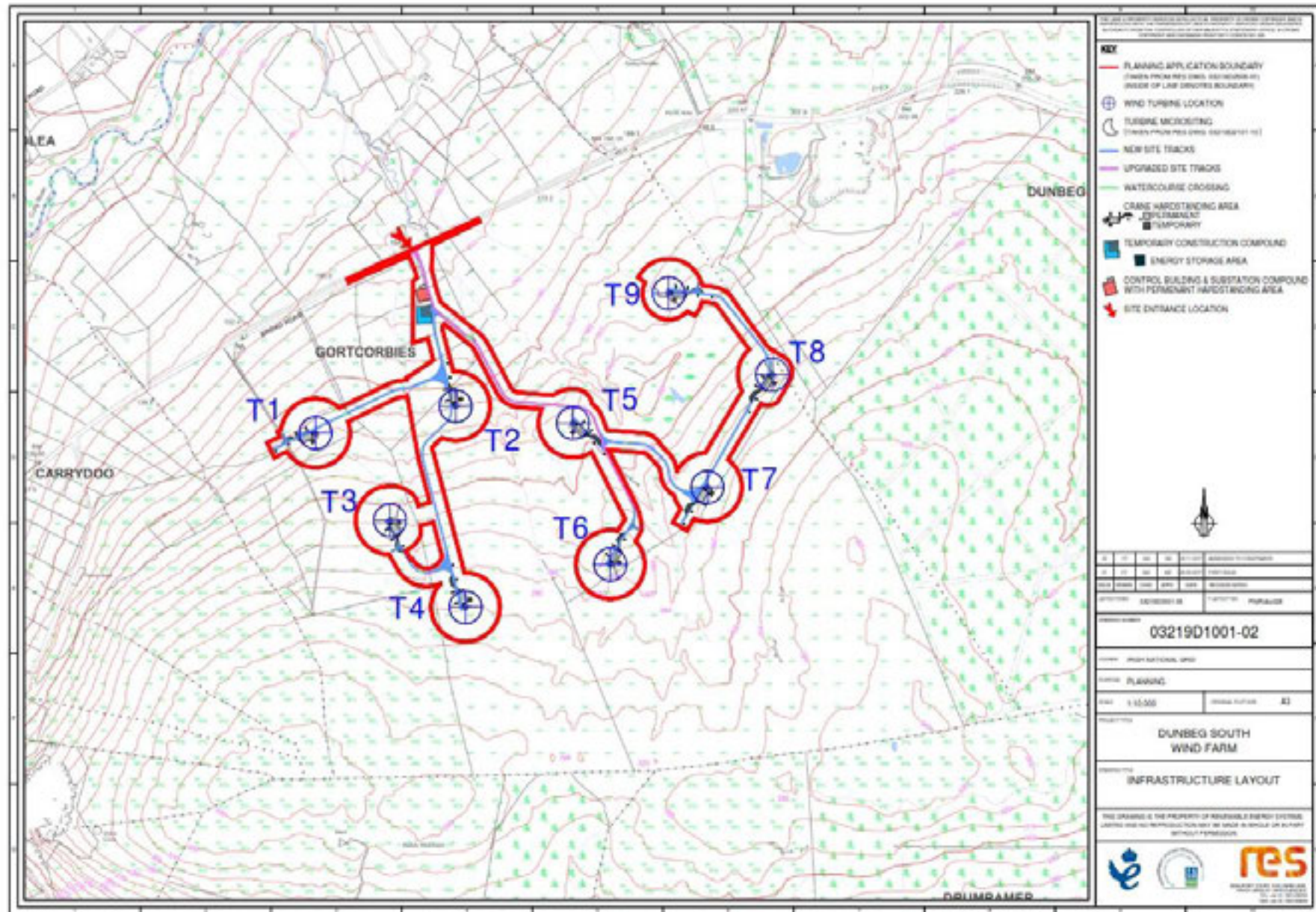
- Located in the townland of Gortcorbies, approximately 6km northeast of Limavady.
- Dunbeg South Wind Farm received planning consent from Causeway Coast and Glens Borough Council in December 2020.
- The consent is for nine turbines up to a maximum tip height of 149.9 metres.
- Designed to generate reliable, renewable electricity, whilst minimising local impacts and maximising local benefits wherever possible.
- Capable of generating 37.8MW of clean, low cost electricity, an increase of 8.1MW from the consented project.
- Equivalent to the electricity usage of around 31,000¹ homes each year



¹ The homes figure has been calculated by taking the predicted annual electricity generation of the site (based on RES assessments Dunbeg South has a predicted capacity factor of 35.3%) and dividing this by the annual average electricity figures from the Department of Business, Energy and Industrial Strategy (BEIS) showing that the annual UK average domestic household consumption is 3,748 kWh (Dec 2021).

- The plan below shows the layout of the proposed turbines at Dunbeg South Wind Farm.
- The new application would not exceed the consented overall tip height of 149.9 metres.
- The new application is for a rotor diameter of up to 117 metres.
- No change to the consented turbine locations.
- In addition to the wind turbines and foundations, the site infrastructure is expected to include:
 - External electricity transformers
 - Crane hardstandings
 - Underground cabling
 - Control building
 - Substation compound
 - Newly created site entrance
 - Temporary construction compound

Design Layout and Infrastructure



- An Environmental Impact Assessment (EIA) is being undertaken to investigate any significant potential effects of the development on the environment and, where applicable, identify mitigation measures to eliminate or reduce potential effects.
- The EIA will include assessment of the following:
 - Landscape and Visual
 - Shadow Flicker
 - Noise



Supply Chain Opportunities

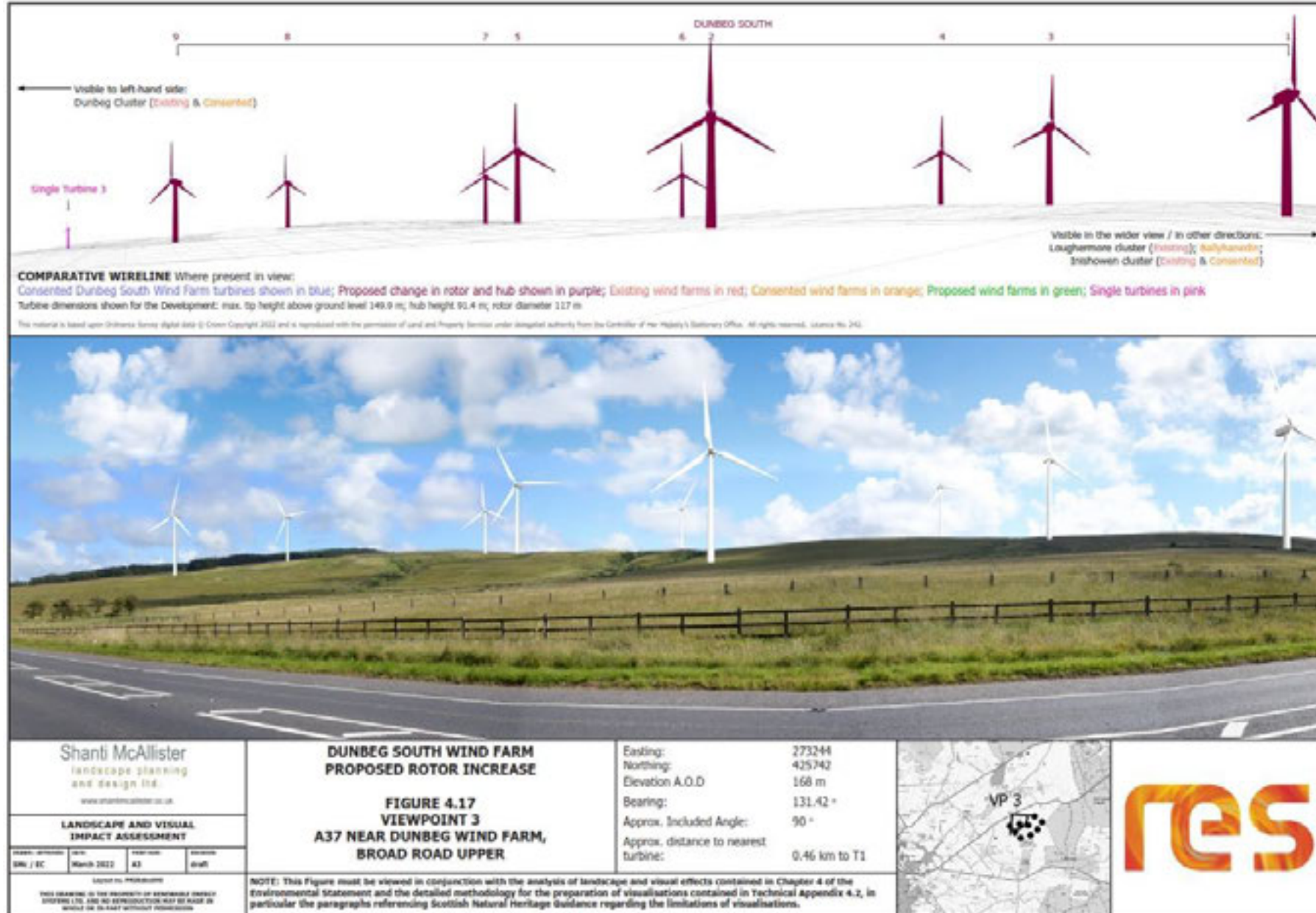
- RES has a strong track-record of working closely with the local supply chain around its projects and maximising inward investment opportunities wherever possible.
- Dunbeg South Wind Farm has the potential to deliver approximately £7.8 million to the local area in the form of jobs, employment, and the use of local services.
- RES is keen to hear from local businesses who are interested in learning more about the opportunities associated with the construction and operation of this project. Please contact us for more information.
- During the construction of CastleCraig Wind Farm, near Drumquin, over £3 million inward investment was realised into the local economy. The wind farm construction also provided employment for around 50 local people.
- The construction of Altaveeden Wind Farm, near Loughguile was an economic success for local area, with £1.3million invested directly into Co. Antrim with £772,000 of this spent within 5 miles of the site. A number of local contractors were used including P.keenan and Sons, F.P. McCann and William and Henry Alexander (Civil Engineering) Limited



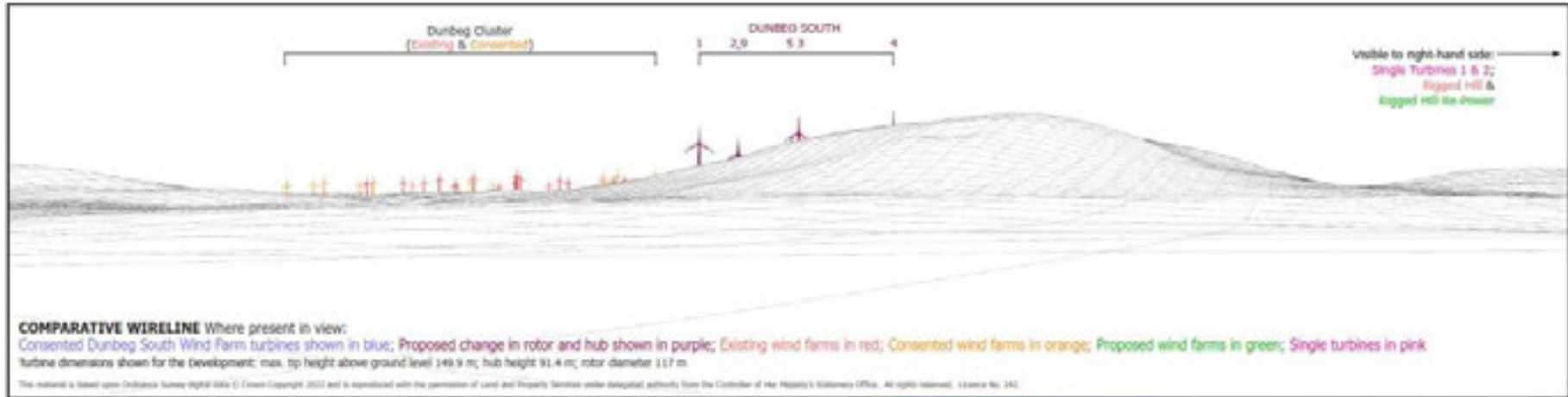
What Would the Wind Farm Look Like?

- We have produced indicative visualisations and wirelines to help give an impression of what the wind farm could look like from different viewpoints in the area. Click on the links below to view..
- We have also produced an indicative Zone of Theoretical Visibility (ZTV) Map showing where the turbines could be visible from. Please note that this is based on bare land form without trees or buildings.

Viewpoint 3 - A37 near Dunbeg Wind Farm, Broad Road Upper

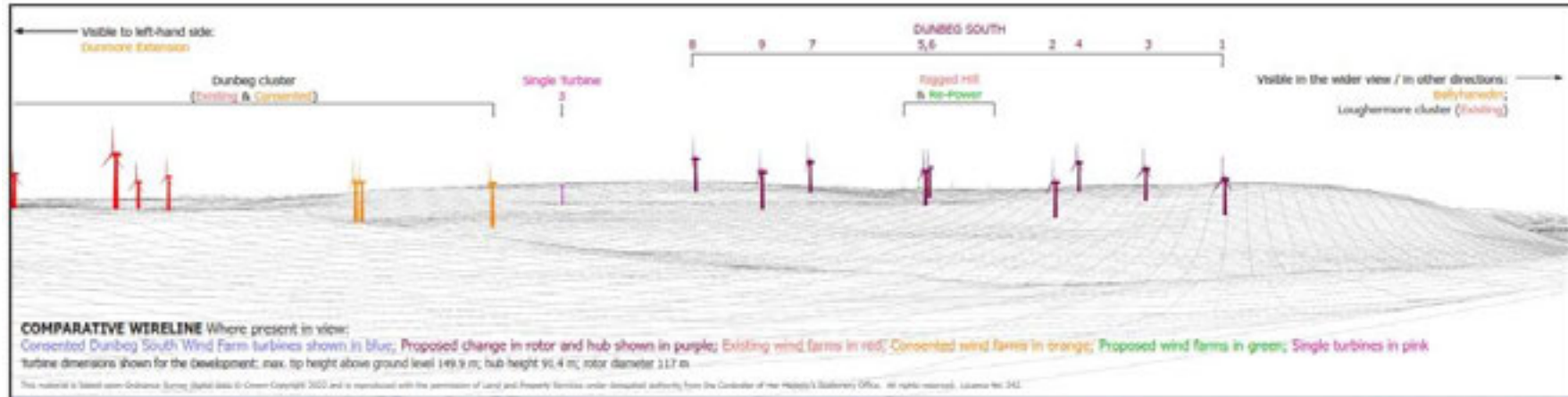


Viewpoint 6 - A37 layby, Broad Road Lower



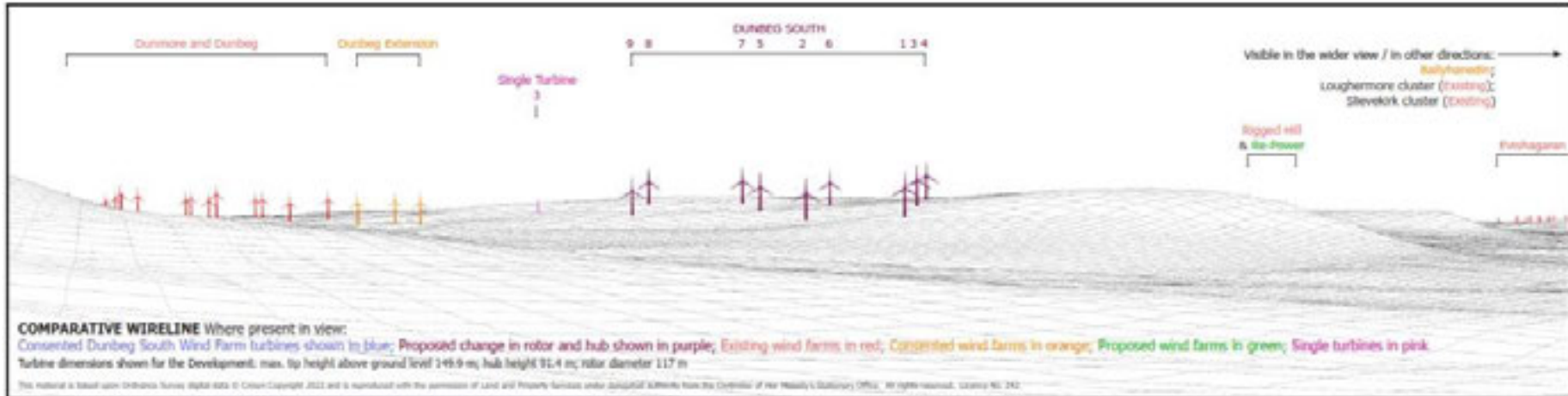
Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk		DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE		Easting: 269992 Northing: 423391 Elevation A.O.D: 37 m Bearing: 65.18° Approx. Included Angle: 75° Approx. distance to nearest turbine: 3.67 km to T1		
LANDSCAPE AND VISUAL IMPACT ASSESSMENT		FIGURE 4.20 VIEWPOINT 6 A37 LAYBY, BROAD ROAD LOWER				
PREPARED BY: SMC / BC	DATE: March 2022	PROJECT: A3	REVISION: 01/01	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 4.3, in particular the paragraphs referencing Scottish Natural Heritage guidance regarding the limitations of visualisations.		

Viewpoint 7 - Windyhill Road West



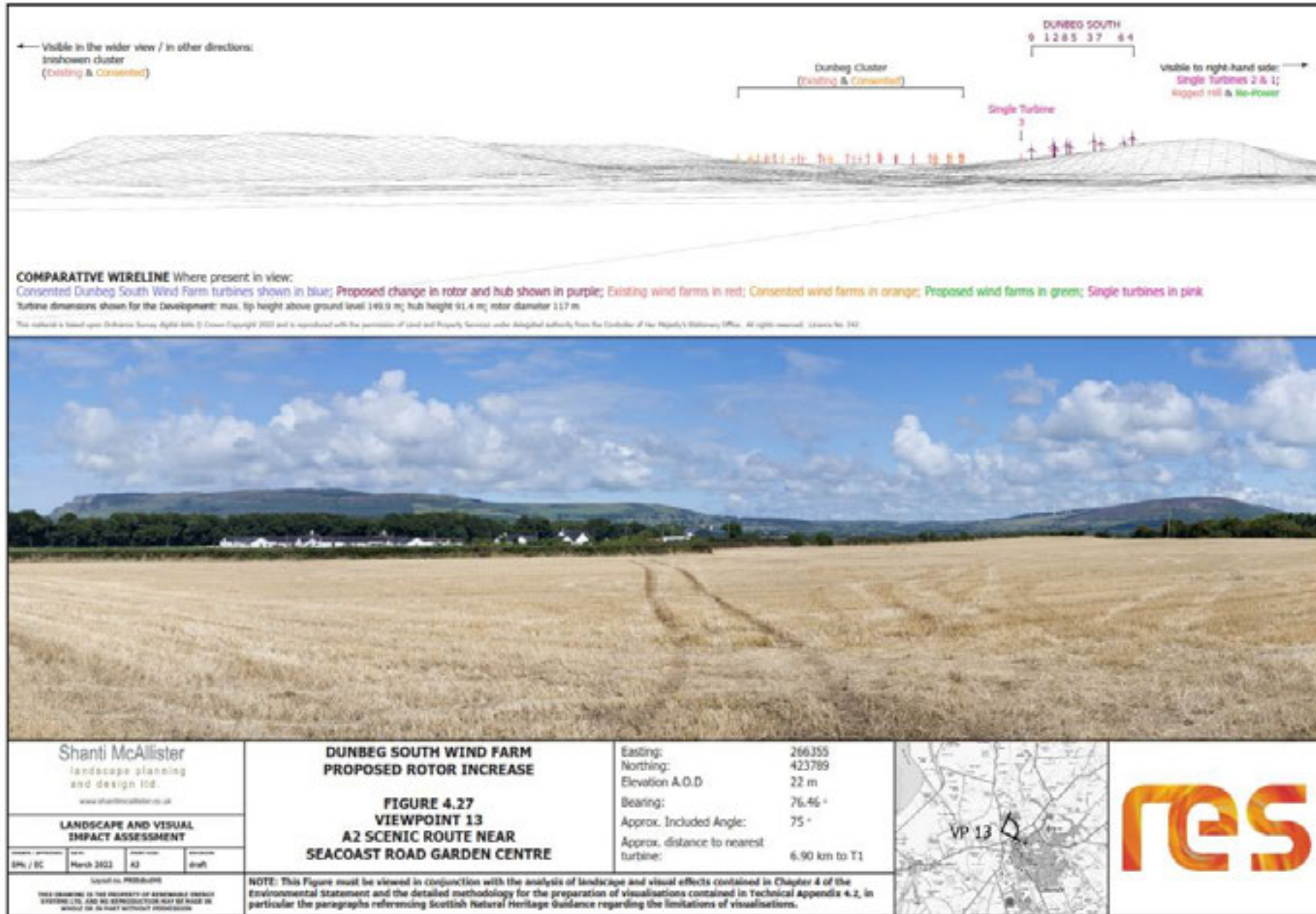
Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk	DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE		Easting: 273119 Northing: 428091 Elevation A.O.D: 192 m Bearing: 164.50° Approx. Included Angle: 75° Approx. distance to nearest turbine: 2.65 km to T9		
	FIGURE 4.21 VIEWPOINT 7 WINDYHILL ROAD WEST				
LANDSCAPE AND VISUAL IMPACT ASSESSMENT					
MODEL APPROVAL EMU / EE	DATE March 2020	REVISION A3	DRAWN GMR		
<p><small>NOTICE: THIS FIGURE IS THE PROPERTY OF RESOURCES ENERGY SYSTEMS LTD. AND AN REPRODUCTION MAY BE MADE BY ANYONE OR IN ANY MEDIUM WITHOUT PERMISSION.</small></p> <p><small>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, in particular the paragraphs referencing Scottish natural heritage guidance regarding the limitations of visualisations.</small></p>					

Viewpoint 10 - Binevenagh Scenic Drive, near Lisnagrib

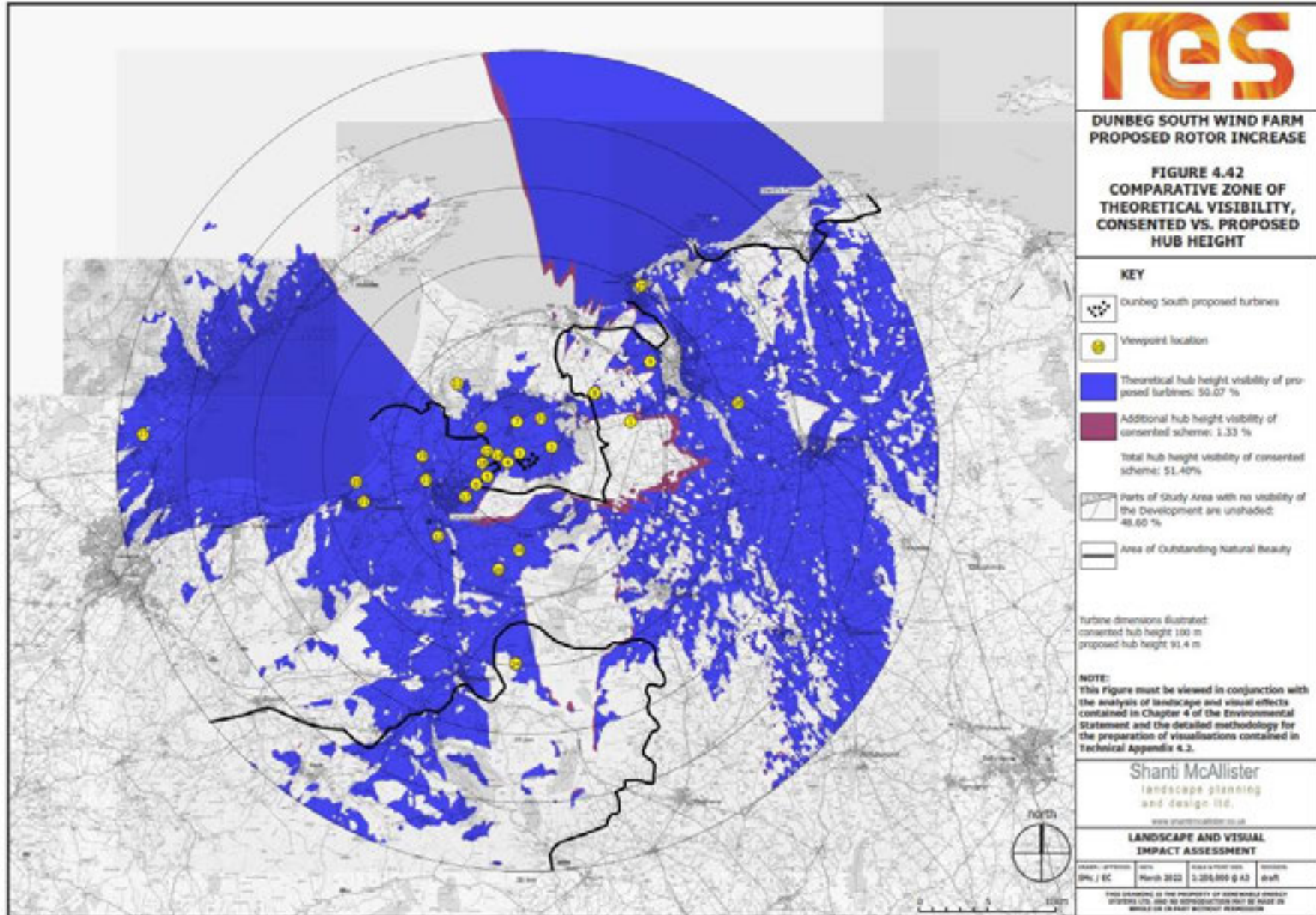


Shanti McAllister landscape planning and design ltd. www.shantimcallister.co.uk		DUNBEG SOUTH WIND FARM PROPOSED ROTOR INCREASE		Easting: 270487 Northing: 427688 Elevation A.O.D: 168 m Bearing: 128.67° Approx. Included Angle: 80° Approx. distance to nearest turbine: 3.59 km to T1			
LANDSCAPE AND VISUAL IMPACT ASSESSMENT		FIGURE 4.24 VIEWPOINT 10 BINEVENAGH SCENIC DRIVE NEAR LISNAGRIB		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, in particular the paragraphs referencing Scottish Natural Heritage Guidance regarding the limitations of visualisations.			
DATE: March 2022 DRAWN BY: AJ CHECKED BY: DM	SCALE: 1:1000 PROJECT NO: 242	DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION.					

Viewpoint 13 - A2 Scenic Route, near Seacourt Road Garden Centre



Zone of Theoretical Visibility



Why Wind?

- Urgent need to reduce carbon emissions.
- Tackling Climate Change by supporting Northern Ireland's Climate Bill, which has a target of 80% of electricity consumption from renewable sources by 2030.
- Enables us to generate our own electricity reducing reliance on imports.
- Increases security of supply.
- Renewable energy at lowest cost to the consumer².
- Free and inexhaustible resource which has an important role to play as part of a balanced energy mix



² https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/911817/electricity-generation-cost-report-2020.pdf

- Comments on the Dunbeg South proposal should be provided in writing.
- The closing date for comments is Friday 22nd April 2022. Comments will still be accepted after this date but may not be considered in relation to the design development.
- Please note that comments submitted to RES at the Online Public Exhibition are not representations to the determining authority (Strategic Planning Directorate Department for Infrastructure). There will be an opportunity to submit representations to the determining authority should a planning application be submitted.





Appendix 10: Returned and completed comment and enquiry form

From: [REDACTED]
Sent: 29 Mar 2022 08:14:57 +0000
To: [REDACTED]
Subject: UK & Ireland Form Submission

1.1 How did you find out about our online exhibition?

Newsletter through the door

Other

1.2 Before visiting the online exhibition how would you describe your knowledge of the new application for Dunbeg South Wind Farm?

Knew nothing at all

1.3 Having visited the online exhibition, to what extent do you feel you have increased your understanding about the new application for Dunbeg South Wind Farm?

A lot

1.4 Do you have any suggestions for ways in which we could have improved our online exhibition?

2 Climate change and renewables

2.1 Do you agree that we are facing a global climate change emergency?

I strongly agree

If you disagree or strongly disagree please explain why:

2.2 Do you agree that generating electricity from renewable sources, and reducing our reliance on fossil fuels, can help towards tackling the issue of climate change?

I strongly agree

If you disagree or strongly disagree please explain why:

2.3 Do you agree that we need to develop onshore wind farms to help reduce our carbon emissions?

I don't know

2.3 If you disagree or strongly disagree please explain why:

Dunbeg South WF

To enable RES to optimise the clean, low cost electricity the wind farm would be capable of generating, we propose to submit a planning application to increase the turbine rotor size.

What do you think about the new application for Dunbeg South Wind Farm?

I have concerns about the increased rotor diameter

Further comments:

Living on the Terrydoo Road at the Ringsend road end, we are already overlooked by the rigged hill wind farm. There is an unwanted background noise that we have to now put up with and to me it has affected our enjoyment of the peacefulness of the area (and why we built a bungalow and moved here).

3.2 Please provide us with any further suggestions or comments regarding the new application for Dunbeg South Wind Farm

What background noise levels will the new site add to the existing, would you want it on your doorstep and what measures have you planned to appease local residents like me e.g. compensation, reduction in electricity rates etc.....

4 Your details

Your name:

[REDACTED]

Your email:

[REDACTED]

Your address

[REDACTED]

[REDACTED]

[REDACTED]

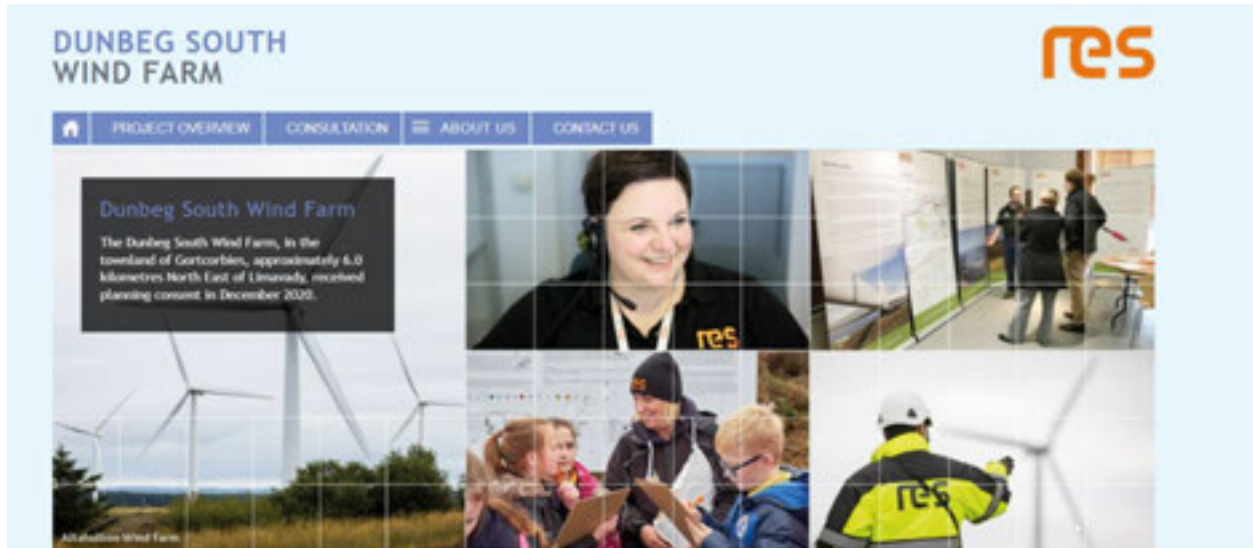
If you would like to be kept up to date with the project, please tick this box

True

Thank you

Consent Message

Appendix 11: Dunbeg South Wind Farm Website imagery



WELCOME

The Dunbeg South Wind Farm received planning consent, from Causeway Coast and Glens Borough Council, in December 2020.

To enable RES to take advantage of modern turbine technology, and optimise the clean, low cost electricity the wind farm would be capable of generating, we propose to submit a planning application to increase the turbine rotor size.

QUICK LINKS

[CONSULTATION](#)



DUNBEG SOUTH WIND FARM AT A GLANCE

The consented Dunbeg South Wind Farm comprises 9 turbines, each up to a maximum tip height of 149.9 m. It is anticipated that the site would be capable of generating approximately 29.7 megawatts (MW) of clean, green and renewable electricity - enough to power approximately 23,000 homes.



Location:
Approximately 6 km
northeast of Limavady

**Proposed number
of turbines: 9**

[Click on image to enlarge](#)

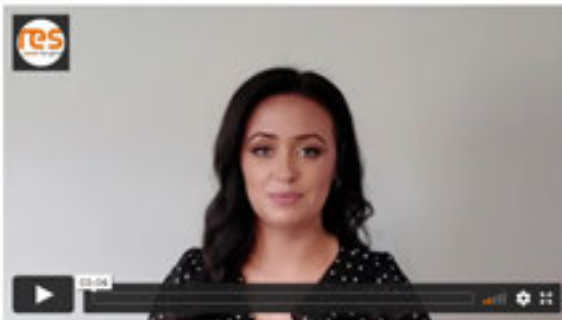
This page is accessible on desktop and most mobile devices. For the best user experience, we recommend viewing from a desktop device. Information may not appear fully on some mobile devices. Electronic and hard copies of exhibition material are available by contacting 07623 807297 or emailing ellen.cross@res-group.com.

Online Public Exhibition

The Dunbeg South Wind Farm received planning consent, in December 2020. To enable RES to optimise the clean, low cost electricity the wind farm would be capable of generating, we propose to submit a planning application to increase the turbine rotor size.

As part of our community engagement on the new application for Dunbeg South Wind Farm, we have launched an online exhibition to inform people about the application and gather feedback. The event launched on Tuesday 29th March 2022 and the closing date for comments to RES on the new application was Friday 22 April 2022. Comments will still be received after this date but may not be taken into account in the design development. Please contact us for more information.

The video below provided an introduction to the online exhibition and consultation.



Further information is provided below. Hard copies of the information below are available upon request - please contact us for more information.

About the project

Located in the townland of Gortcorbries, approximately 6km northwest of Lisnady.

Dunbeg South Wind Farm received planning consent from Causeway Coast and Glens Borough Council in December 2020.

The consent is for nine turbines up to a maximum tip height of 149.9 metres.



[Click on image to enlarge](#)

Designed to generate reliable, renewable electricity, whilst minimising local impacts and maximising local benefits wherever possible.

Capable of generating 37.6MW of clean, low cost electricity, an increase of 8.1MW from the consented project.

Equivalent to the electricity usage of around 31,000 homes each year.

Design Layout and Infrastructure

The new application would not exceed the consented overall tip height of 149.9 metres.

The new application is for a rotor diameter of up to 117 metres.

No change to the consented turbine locations.



[Click on image to enlarge](#)

In addition to the wind turbines and foundations, the site infrastructure is expected to include:

- External electricity transformers
- Crane handstandings
- Underground cabling
- Control building
- Substation compound
- Newly created site entrance
- Temporary construction compound

Environmental Considerations

An Environmental Impact Assessment (EIA) is being undertaken to investigate any significant potential effects of the new application on the environment and, where applicable, identify mitigation measures to eliminate or reduce potential effects.



The EIA will include assessment of the following:

- Landscape and Visual
- Shadow Flicker
- Noise

Supply Chain Opportunities

RES has a strong track record of working closely with the local supply chain around its projects and maximising inward investment opportunities wherever possible.

Dunbeg South Wind Farm has the potential to deliver approximately £7.8 million to the local area in the form of jobs, employment, and the use of local services.

RES is keen to hear from local businesses who are interested in learning more about the opportunities associated with the construction and operation of this project. Please contact us for more information.



During the construction of Castle Craig Wind Farm, near Drumquin, over £3 million inward investment was realised into the local economy. The wind farm construction also provided employment for around 50 local people.

The construction of Allaveedan Wind Farm, near Loughgulla was an economic success for local area, with £1.3million invested directly into Co. Antrim with £772,000 of this spent within 5 miles of the site. A number of local contractors were used including Paveenan and Sons, R.P. McCann and William and Henry Alexander (Civil Engineering) Limited.

What Would the Wind Farm Look Like?

We have produced indicative visualisations and wirelines to help give an impression of what the wind farm could look like from different viewpoints in the area. Click on the links below to view.

[Viewpoint 1 - A27 near Durbeg Wind Farm, Broad Road Upper](#)

[Viewpoint 5 - A27 byby, Broad Road Lower](#)

[Viewpoint 7 - Windyhill Road West](#)



[Viewpoint 10 - Binnemagh Scenic Drive, near Umanagh](#)

[Viewpoint 11 - A2 Scenic Route, near Seacourt Road Garden Centre](#)

We have also produced an indicative Zone of Theoretical Visibility (ZTV) map showing where the turbines could be visible from. Please note that this is based on bare land form without trees or buildings.

[Zone of Theoretical Visibility](#)

Why Wind?

Urgent need to reduce carbon emissions.

Tackling Climate Change by supporting Northern Ireland's Climate Bill, which has a target of 80% of electricity consumption from renewable sources by 2030.

Enables us to generate our own electricity reducing reliance on imports



Increase security of supply.

Renewable energy at lowest cost to the consumer¹.

Free and inexhaustible resource which has an important role to play as part of a balanced energy mix.

¹ The former figure has been calculated by taking the predicted annual electricity generation of the site (based on R2 assessments Durbeg South has a predicted capacity factor of 35.2%) and dividing this by the annual average electricity figures from the Department of Business, Energy and Industrial Strategy (DEIS) showing that the annual UK average domestic household consumption is 3,748 kWh (Dec. 2021).

² https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/91917/electricity-generation-cost-report-2020.pdf



CONTACT US

Ellen Cross



Ellen is the Development Project Manager and will oversee all aspects of the Dunbeg South project. Ellen can be contacted by phone on 07425 807 297 or by email at ellen.cross@res-group.com.

Callum Whiteford



Callum is the Community Relations Manager for the Dunbeg South Wind Farm and manages the project communications and local engagement. Callum can be contacted by phone on 07500 937 825 or by email at callum.whiteford@res-group.com.

Alternatively, you can write to us at:

Dunbeg South Wind Farm, RES Wilsontank Business Park Millbrook, Larne, County Antrim, BT40 2SF.

Renewable Energy Systems Limited
Company No. 1509967
Registered in England and Wales

*Note regarding legal notices and legal proceedings:
Electronic service and delivery of legal proceedings and notices is not permitted. No e-mail address of RES or any of its employees may be used for such service or delivery, which must be done in hard copy to the company's registered office.*