



Parc Ynni Calon y Gwynt

ENVIRONMENTAL STATEMENT

Chapter 15 – Cumulative Effects





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15 CUMULATIVE EFFECTS

15.1 INTRODUCTION

- 15.1.1 This chapter presents the assessment of the likely significant effects with respect to the combination of effects arising from the Proposed Development (i.e. intra-project combined effects). It should be read in conjunction with the description provided in **Chapter 4: Description of the Proposed Development**.
- 15.1.2 Potential inter-project cumulative effects arising from the combination of effects from the Proposed Development with similar topic-related effects generated by other developments are discussed in **Chapter 2: Approach to Environmental Impact Assessment** and assessed in **Chapters 5-14**.

15.2 LIMITATIONS AND ASSUMPTIONS

- 15.2.1 There are no limitations that affect the robustness of the assessment of the likely significant combined effects of the Proposed Development.

15.3 RELEVANT LEGISLATION, PLANNING POLICY AND TECHNICAL GUIDANCE

- 15.3.1 This section identifies the legislation, planning policy and technical guidance that has the assessment of effects with respect to combined effects.

LEGISLATION

- 15.3.2 This assessment takes into account Regulation 4(2)(e) of the Town & Country Planning (Environmental Impact Assessment) (Wales) Regulations 2017¹ which states that the “*The environmental impact assessment must identify, describe and assess in an appropriate manner, in light of each individual case, the direct and indirect significant effects of proposed development on the following—*”

- (a) Population and human health;
- (b) Biodiversity, with particular attention to species and habitats protected under Directive 92/43/EEC M1 and Directive 2009/147/ECM2;
- (c) Land, soil, water, air and climate;
- (d) Material assets, cultural heritage and the landscape; and
- (e) The interaction between the factors listed in sub-paragraphs (a) to (d)².**

PLANNING POLICY

- 15.3.3 A summary of the relevant national and local planning policy is given in **Table 15-1**.

¹ UK Government (2017). The Town and Country Planning (Environmental Impact Assessment) (Wales) Regulations 2017. (Online) Available at: <https://www.legislation.gov.uk/wsi/2017/567/contents> (Accessed May 2026).

² Boldened for emphasis in relation to combined effects

Table 15-1 - Planning Policy Relevant to the Cumulative Effects Assessment

Policy	Policy Context
National Planning Policy	
Future Wales: The National Development Plan 2040 ³	Policy 18: Renewable and Low Carbon Energy Developments of National Significance outlines that proposals should consider the cumulative impacts of existing and consented renewable energy schemes. The Plan further states that “ <i>Both within and outside Pre-Assessed Areas, communities should be protected from significant cumulative impacts to avoid unacceptable situations whereby, for example, smaller settlements could be potentially surrounded by large wind schemes</i> ”.
Planning Policy Wales, Edition 12, Welsh Government (2024) ⁴	Chapter 5: Productive and Enterprising Places covers the economic components of placemaking. The chapter outlines that local planning authorities should, when formulating their renewable energy targets, “ <i>take into account the cumulative impact of renewable and low carbon energy development and their associated infrastructure, for example grid connections</i> ”.

TECHNICAL GUIDANCE

15.3.4 A summary of other relevant information and guidance relevant to the assessment undertaken for combined effects is provided here:

- *Environmental Impact Assessment of Projects: Guidance on the preparation of the Environmental Impact Assessment Report* (Directive 2011/92/EU as amended by 2014/52/EU)⁵ aims to help developers and consultants produce good quality EIA reports. Section 1.4.3 highlights the need to consider interactions between the different environmental aspects in a single project. It recommends using interactive matrices that consider the interactions of impacts assessed individually; and
- *Guideline for the Assessment of Indirect and Cumulative Impacts as well as Impact Interactions*⁶ sets out various tools that can be used for combined effects, guidance on the approach and assessment. Section 3 of the guidance outlines the tools that can be used for combined effects, which are: expert opinion, matrices, consultation and questionnaires, network and systems analysis and spatial analysis. These tools can be used in different combinations at different stages of the project. Section 7.7 of the guidance states the combined effects assessment can be within the individual aspect chapters or as its own standalone chapter (as in this ES). Section 7.3.1 of the guidance states where the assessment cannot be qualitative, a qualitative assessment can be carried out.

³ Welsh Government (2021). Future Wales: The National Plan 2040. (Online) Available at: <https://gov.wales/sites/default/files/publications/2021-02/future-wales-the-national-plan-2040.pdf> (Accessed May 2026).

⁴ Welsh Government (2024) Planning Policy Wales, Edition 12, February 2024. (Online). Available at: [Planning Policy Wales - Edition 12 \(gov.wales\)](https://gov.wales/sites/default/files/publications/2024-02/planning-policy-wales-edition-12.pdf). (Accessed May 2026).

⁵ European Commission (2017). Environmental Impact Assessment of Projects: Guidance on the preparation of the Environmental Impact Assessment Report (Directive 2011/92/EU as amended by 2014/52/EU). (Online) Available at: https://ec.europa.eu/environment/eia/pdf/EIA_guidance_EIA_report_final.pdf (Accessed May 2026).

⁶ European Commission (1999). Guideline for the Assessment of Indirect and Cumulative Impacts as well as Impact Interactions. (Online) Available at: <https://ec.europa.eu/environment/archives/eia/eia-studies-and-reports/pdf/guidel.pdf> (Accessed May 2026).

15.4 CONSULTATION AND ENGAGEMENT

OVERVIEW

- 15.4.1 An overview of the approach to consultation is provided in **Section 2.4** of **Chapter 2: Approach to Environmental Impact Assessment**. No specific consultation in relation to the assessment of combined effects has been undertaken.

SCOPING DIRECTION

- 15.4.2 A Scoping Direction was issued by Planning and Environment Decisions Wales (PEDW formally Planning Inspectorate Wales), on behalf of the Welsh Ministers on the 14th of May 2025 (**Appendix 1B**). No comments on combined effects were raised in the Scoping Direction.

15.5 DATA GATHERING METHODOLOGY

- 15.5.1 The study area and data gathering exercises for the combined effects assessment are informed by that form each of the environmental topic chapters (**Chapters 5 - 14**).

15.6 OVERALL BASELINE

- 15.6.1 The baseline for the assessment is as discussed within the individual topic chapters (**Chapters 5-14**).

15.7 EMBEDDED MEASURES

- 15.7.1 A range of environmental measures have been embedded into the development proposals as outlined in **Section 4.7** and **Chapters 5-14** of this ES.

15.8 SCOPE OF THE ASSESSMENT

SPATIAL SCOPE

- 15.8.1 The spatial study area is dependent on each environmental topic. To have a potential combined effect a receptor or receptor group must be within the study area of more than one environmental topic. An illustrative example of this is described in **Plate 15-1**; only the green receptors have the potential to experience combined effects as they are in the study area for environmental topic (aspect) 1 and environmental topic (aspect) 2.



Plate 15-1 - Illustrative Example of the Spatial Scope and Study Area for an example Receptor

15.8.2 The study area for each of the individual environmental topics (**Chapters 5-14**) relevant to this chapter have been through informed desk study and engagement with stakeholders.

TEMPORAL SCOPE

15.8.3 The temporal scope of the assessment of combined effects is the entire lifetime of the Proposed Development which therefore covers the construction, operation, maintenance and decommissioning periods.

15.9 ASSESSMENT METHODOLOGY

- 15.9.1 National policy guidance requires that all relevant effects should be considered objectively. However, existing guidance does not provide advice on how such an objective assessment should be carried out.
- 15.9.2 There is no established methodology for quantitatively assessing complex cross-topic combined effects and assigning a level of significance to them, as methodologies and criteria vary across environmental aspects. Therefore, the assessment of combined effects between topics is qualitative, relying on professional judgement as to how individual effects would interact.
- 15.9.3 The methodology adopted for this assessment is summarised in **Plate 15-2** and is outlined in detail in the remainder of this section.

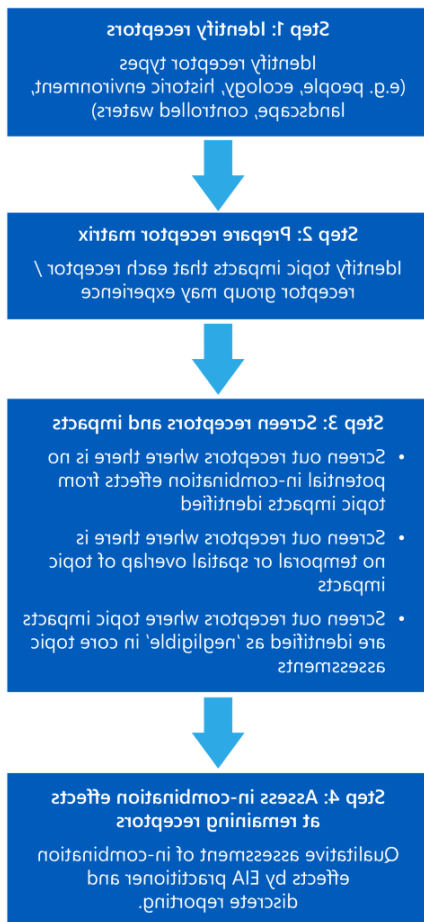


Plate 15-2 - Illustrative Example of the Spatial Scope and Study Area for an Example Receptor

- 15.9.4 Common receptors for environmental topics (Step 1) have been identified and consideration given to whether the aspect effects on any common receptors are likely to combine. This has identified:
- The common receptor(s) from the individual topic assessments;
 - The impact source pathways that can affect the common receptor(s);
 - The potential effects on the identified common receptor(s); and
 - The combined effects across the construction, operation and maintenance and decommissioning phases where appropriate.
- 15.9.5 Step 2 and 3 of **Plate 15-2** were completed as part of **Table 15-2**, while **Table 15-3** completes the assessment of in-combination effects.
- 15.9.6 It should be noted that some elements of the assessment inherently consider combined effects. For example, biodiversity assessment of effects takes into account the potential for multiple impacts affecting particular features such as disturbance effects on faunal receptors resulting from noise and vibration, visual disturbance and lighting. Where this is the case, this is described within the individual environmental topic chapter.

POTENTIAL RECEPTORS

- 15.9.7 The most likely types of receptors where topic effects are likely to combine are those pertaining to the amenity of the human population. For example, the occupants of a residential property in close proximity to the Proposed Development might be subject to adverse effects in terms of noise or shadow flicker, as well as with regard to visual amenity, or any combination thereof, each of which, when assessed individually, may not be significant in EIA terms, but when assessed in combination the combined effects may be judged to be significant.
- 15.9.8 Consideration has also been given to the potential for combined effects on other environmental receptors. A review of the respective ES chapters has been undertaken to identify where any non-human receptor may be affected by more than one environmental effect.

Landscape/Visual and Environment Receptors

- 15.9.9 A total of 3 Landscape/Visual and Environment Receptors have been considered in two or more of the following chapters:
- Public Rights of Way and Open Access Land within 5km;
 - B4568; and
 - A470.

Human/Residential Receptors

- 15.9.10 A total of 32 human/residential receptor locations have been considered in two or more of the following chapters:
- **Chapter 7: Landscape and Visual**⁷;
 - **Chapter 11: Noise**; and
 - **Chapter 13: Shadow Flicker**.

⁷ The residential receptors identified under 'Chapter 7: Landscape and Visual' originate from their inclusion in the RVAA (**Appendix 7L**).

Ecological Receptors

15.9.11 A total of 2 ecological receptor locations have been considered in two or more of the following chapters:

- **Chapter 5: Ecology;**
- **Chapter 6: Ornithology; and**
- **Chapter 9: Hydrology.**

15.9.12 All receptors considered in two or more ES chapters are summarised in **Table 15-2**.

Table 15-2 - Common Receptors

Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Landscape / Visual Environmental Receptors										
Public Rights of Way and Open Access Land within 5km	X	X	✓	X	X	X	X	✓	X	X
B4658	X	X	✓	X	X	X	X	✓	X	X
A470	X	X	✓	X	X	X	X	✓	X	X
Human Receptors										
H1 Newhouse / 11 - New House / New House, Pontdolgoch, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X
H2 Lluast-y-greolen Pontdolgoch, Caersws, SY17 5NE	X	X	X	X	X	X	✓	X	✓	X
H3 Llyn Mawr / 2 - Llyn Mawr / Llyn Mawr, Clatter, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X
H4 Lakeside View / 3 - Lakeside View / Lakeside View, Pontdolgoch, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X

Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H6 Tŷ-uchaf / 9 - Ty Uchaf / Ty Uchaf, Cefn Coch, Welshpool, SY21 0AJ	X	X	✓	X	X	X	✓	X	✓	X
H20 Fuches-gôch / 40 - Fuches Goch	X	X	✓	X	X	X	✓	X	X	X
H47 Blaen-y-Cwm / 5 - Blaen y Cwm / Blaen Y Cwm, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	✓	X	✓	X
H51 Cwm-yr-annel / Cwm Yr Annel, Carno, Caersws, SY17 5JY	X	X	X	X	X	X	✓	X	✓	X
H53 Pantygesail / Panty Gesail, Caersws, SY17 5NW	X	X	X	X	X	X	✓	X	✓	X
H55 Cwm-gerwyn / 8 - Cwm Gerwyn / Cwm Gerwyn, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	✓	X	✓	X
H57 Parc-y-rhiw / Parc Y Rhiw and The Annexe Caersws, SY17 5NW	X	X	X	X	X	X	✓	X	✓	X

Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H58 Dol y Llin / 20 - Dol y Llin / Dol Y Llin, Carno, Caersws, SY17 5NW	X	X	✓	X	X	X	✓	X	✓	X
H59 Groffydd Cottage / 23 - Groffydd Cottage / Groffydd Cottage, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	✓	X	✓	X
H60 Groffydd / Yr Hen Stabal / 28 - Groffydd / 29 - Yr Hen Stabal / Groffydd, Carno, Caersws, SY17 5JR / Yr Hen Stabal, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	✓	X	✓	X
H61 Pant-y-crasty / 36 - Pant y Crasty	X	X	✓	X	X	X	✓	X	X	X
H62 Troed y Gart / Ger-y-waun / 37 - Troed y Garth / 39 - Ger-y-waun	X	X	✓	X	X	X	✓	X	✓	X
H63 Cwm-clŷs / Cwmclys, Clatter, Caersws, SY17 5NW	X	X	X	X	X	X	✓	X	✓	X
H64 Cwm-clŷs / Cwmclys, Clatter, Caersws, SY17 5NW	X	X	X	X	X	X	✓	X	✓	X

Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H65 Gilfach-hîr / 18 - Gilfach-hir / Gilfach-Hir, Clatter, Caersws, SY17 5N	X	X	✓	X	X	X	✓	X	✓	X
H68 Slate House / 27 - Slate House / Slate House, Pontdolgoch, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X
H69 Pant y Gwaila / 24 - Pant y Gwalia / Pant Y Gwalia, Pontdolgoch, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X
H70 Bronffynnon / Bronffynon, Clatter, Caersws, SY17 5N	X	X	X	X	X	X	✓	X	✓	X
H71 Wyddol / 25 - Wyddol / Wyddol, Pontdolgoch, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X
H72 Tan y Bwlch / 30 - Tany y Bwlch / Tany Y Bwlch, Llanwnnog, Caersws, SY17 5NE	X	X	✓	X	X	X	✓	X	✓	X
H73 Cerrig y Brain / 35 - Cerrig y Brain	X	X	✓	X	X	X	✓	X	X	X

Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H74 Gelli / Gelli, Clatter, Caersws, SY17 5NE	X	X	X	X	X	X	✓	X	✓	X
H75 Clogau / Clogau, Clatter, Caersws, SY17 5NE	X	X	X	X	X	X	✓	X	✓	X
H101 Ael y Bryn / 14 - Ael y Bryn / Ael Y Bryn, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	✓	X	✓	X
H102 Tŷ-gwyn / 17 - Ty Gwyn / Ty Gwyn, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	✓	X	✓	X
19 - Carreg Ateb / Carreg Ateb, Pontdolgoch, Caersws, SY17 5NE	X	X	✓	X	X	X	X	X	✓	X
22 - Pen y Bryn / Pen Y Bryn, Carno, Caersws, SY17 5JR	X	X	✓	X	X	X	X	X	✓	X
Ecological Receptors										
Llyn Mawr SSSI	✓	✓	X	X	✓	X	X	X	X	X
Gregynog SSSI	✓	X	X	X	✓	X	X	X	X	X

15.9.13 The receptors considered in this assessment are therefore:

Landscape / Visual Environment Receptors

- PRoW and Open Access Land within 5km of the Site;
- B4658; and
- A470.

Human/Residential Receptors

- H1 Newhouse / 11 - New House / New House, Pontdolgoch, Caersws, SY17 5NE;
- H2 Lluast-y-greolen / 12 - Lluast / Lluast, Pontdolgoch, Caersws, SY17 5NE;
- H3 Llyn Mawr / 2 - Llyn Mawr / Llyn Mawr, Clatter, Caersws, SY17 5NE;
- H4 Lakeside View / 3 - Lakeside View / Lakeside View, Pontdolgoch, Caersws, SY17 5NE;
- H6 Tŷ-uchaf / 9 - Ty Uchaf / Ty Uchaf, Cefn Coch, Welshpool, SY21 0AJ;
- H20 Fuches-gôch / 40 - Fuches Goch;
- H47 Blaen-y-Cwm / 5 - Blaen y Cwm / Blaen Y Cwm, Carno, Caersws, SY17 5JR;
- H51 Cwm-yr-annel / 26 - Cwm yr Annel / Cwm Yr Annel, Carno, Caersws, SY17 5JY;
- H53 Pantygesail / 4 - Panty Gesail / Panty Gesail, Caersws, SY17 5NW;
- H55 Cwm-gerwyn / 8 - Cwm Gerwyn / Cwm Gerwyn, Carno, Caersws, SY17 5JR;
- H57 Parc-y-rhiw / 6/7 - Parc y Rhiw & The Annexe / Parc Y Rhiw and The Annexe Caersws, SY17 5NW;
- H58 Dol y Llin / 20 - Dol y Llin / Dol Y Llin, Carno, Caersws, SY17 5NW;
- H59 Groffydd Cottage / 23 - Groffydd Cottage / Groffydd Cottage, Carno, Caersws, SY17 5JR;
- H60 Groffydd / Yr Hen Stabal / 28 - Groffydd / 29 - Yr Hen Stabal / Groffydd, Carno, Caersws, SY17 5JR / Yr Hen Stabal, Carno, Caersws, SY17 5JR;
- H61 Pant-y-crasty / 36 - Pant y Crasty ;
- H62 Troed y Gart / Ger-y-waun / 37 - Troed y Garth / 39 - Ger-y-waun;
- H63 Cwm-clÿs / 15 - Cwmclys / Cwmclys, Clatter, Caersws, SY17 5NW;
- H64 Cwm-clÿs / 15 - Cwmclys / Cwmclys, Clatter, Caersws, SY17 5NW;
- H65 Gilfach-hîr / 18 - Gilfach-hir / Gilfach-Hir, Clatter, Caersws, SY17 5N;
- H68 Slate House / 27 - Slate House / Slate House, Pontdolgoch, Caersws, SY17 5NE;
- H69 Pant y Gwaila / 24 - Pant y Gwalia / Pant Y Gwalia, Pontdolgoch, Caersws, SY17 5NE;
- H70 Bronffynnon / 16 - Bronffynon / Bronffynon, Clatter, Caersws, SY17 5N;
- H71 Wyddol / 25 - Wyddol / Wyddol, Pontdolgoch, Caersws, SY17 5NE;
- H72 Tan y Bwlch / 30 - Tany y Bwlch / Tany Y Bwlch, Llanwnnog, Caersws, SY17 5NE;
- H73 Cerrig y Brain / 35 - Cerrig y Brain;

- H74 Gelli / 21 - Gelli / Gelli, Clatter, Caersws, SY17 5NE;
- H75 Clogau / 10 - Clogau / Clogau, Clatter, Caersws, SY17 5NE;
- H78 Pandy-bâch / 38 - Pandy Bach;
- H101 Ael y Bryn / 14 - Ael y Bryn / Ael Y Bryn, Carno, Caersws, SY17 5JR;
- H102 Tŷ-gwyn / 17 - Ty Gwyn / Ty Gwyn, Carno, Caersws, SY17 5JR;
- 19 - Carreg Ateb / Carreg Ateb, Pontdolgoch, Caersws, SY17 5NE; and
- 22 - Pen y Bryn / Pen Y Bryn, Carno, Caersws, SY17 5JR.

Ecological Receptors

- Llyn Mawr SSSI (Ecology, Ornithology, and Hydrology); and
- Gregynog SSSI (Ecology and Hydrology).

LIKELY SIGNIFICANT EFFECTS

15.9.14 The purpose of EIA is to identify and assess any likely significant effects that are material to the decision-making process. In order to maintain proportionality, and in accordance with the EIA Regulations 2017, this assessment therefore concentrates on where significant combined effects are likely to arise between topics considered in this ES.

15.10 ASSESSMENT OF COMBINED EFFECTS

OVERVIEW

15.10.1 The assessment of combined effects has focused on those receptors where potential significant effects have been predicted in respect of at least two or more topics and/or where the technical assessments have shown that potential individual effects are nearing the thresholds of established national criteria.

Table 15-3 sets out where significant effects, or effects close to the threshold of significance, have been identified for each common receptor identified in **Table 15-2**.

Table 15-3 - Common Receptors and Significance of Identified Effects

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Landscape / Visual and Environment Receptors										
PRoW and Open Access Land within 5km of the Site	X	X	◆◆	X	X	X	X	■	X	X
B4658	X	X	■	X	X	X	X	■	X	X
A470	X	X	◆◆	X	X	X	X	■	X	X
Human Receptors										
H1 Newhouse / 11 - New House / New House, Pontdolgoch, Caersws, SY17 5NE	X	X	◆◆	X	X	X	■	X	■	X
H2 Lluast-y- greolen / Lluast, Pontdolgoch,	X	X	X	X	X	X	■	X	■	X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Caersws, SY17 5NE										
H3 Llyn Mawr / 2 - Llyn Mawr / Llyn Mawr, Clatter, Caersws, SY17 5NE	X	X		X	X	X		X		X
H4 Lakeside View / 3 - Lakeside View / Lakeside View, Pontdolgoch, Caersws, SY17 5NE	X	X	◆◆	X	X	X		X		X
H6 Tŷ-uchaf / 9 - Ty Uchaf / Ty Uchaf, Cefn Coch, Welshpool, SY21 0AJ	X	X	◆◆	X	X	X		X		X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H20 Fuches-gôch / 40 - Fuches Goch	X	X	◆◆	X	X	X	■	X	X	X
H47 Blaen-y-Cwm / 5 - Blaen y Cwm / Blaen Y Cwm, Carno, Caersws, SY17 5JR	X	X	◆◆	X	X	X	■	X	■	X
H51 Cwm-yr-annel / Cwm Yr Annel, Carno, Caersws, SY17 5JY	X	X	X	X	X	X	■	X	■	X
H53 Pantygesail / 4 Panty Gesail, Caersws, SY17 5NW	X	X	X	X	X	X	■	X	■	X
H55 Cwm-gerwyn / 8 - Cwm Gerwyn / Cwm Gerwyn,	X	X		X	X	X	■	X	■	X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Carno, Caersws, SY17 5JR										
H57 Parc-y- rhiw / Parc Y Rhiw and The Annexe Caersws, SY17 5NW	X	X	X	X	X	X		X		X
H58 Dol y Llin / 20 - Dol y Llin / Dol Y Llin, Carno, Caersws, SY17 5NW	X	X	◆◆	X	X	X		X		X
H59 Groffydd Cottage / 23 - Groffydd Cottage / Groffydd Cottage, Carno, Caersws, SY17 5JR	X	X	◆◆	X	X	X		X		X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H60 Groffydd / Yr Hen Stabal / 28 - Groffydd / 29 - Yr Hen Stabal / Groffydd, Carno, Caersws, SY17 5JR / Yr Hen Stabal, Carno, Caersws, SY17 5JR	X	X	◆◆	X	X	X	■	X	■	X
H61 Pant-y-crasty / 36 - Pant y Crasty	X	X	◆◆	X	X	X	■	X	X	X
H62 Troed y Gart / Ger-y-waun / 37 - Troed y Garth / 39 - Ger-y-waun	X	X	◆◆	X	X	X	■	X	■	X
H63 Cwm-clŷs / Cwmclys, Clatter,	X	X	X	X	X	X	■	X	■	X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Caersws, SY17 5NW							■		■	
H64 Cwm-clÿs / Cwmclys, Clatter, Caersws, SY17 5NW	X	X	X	X	X	X	■	X	■	X
H65 Gilfach-hîr / 18 - Gilfach- hir / Gilfach- Hir, Clatter, Caersws, SY17 5N	X	X	◆◆	X	X	X	■	X	■	X
H68 Slate House / 27 - Slate House / Slate House, Pontdolgoch, Caersws, SY17 5NE	X	X	◆◆	X	X	X	■	X	■	X
H69 Pant y Gwaila / 24 - Pant y Gwalia / Pant Y Gwalia,	X	X	◆◆	X	X	X	■	X	■	X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Pontdolgoch, Caersws, SY17 5NE							■		■	
H70 Bronffynnon / Bronffynon, Clatter, Caersws, SY17 5N	X	X	X	X	X	X	■	X	■	X
H71 Wyddol / 25 - Wyddol / Wyddol, Pontdolgoch, Caersws, SY17 5NE	X	X		X	X	X	■	X	■	X
H72 Tan y Bwlch / 30 - Tany y Bwlch / Tany Y Bwlch, Llanwnog, Caersws, SY17 5NE	X	X	◆◆	X	X	X	■	X	■	X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
H73 Cerrig y Brain / 35 - Cerrig y Brain	X	X	◆◆	X	X	X	■	X	X	X
H74 Gelli / 21 - Gelli / Gelli, Clatter, Caersws, SY17 5NE	X	X	X	X	X	X	■	X	■	X
H75 Clogau / Clogau, Clatter, Caersws, SY17 5NE	X	X	X	X	X	X	■	X	■	X
H101 Ael y Bryn / 14 - Ael y Bryn / Ael Y Bryn, Carno, Caersws, SY17 5JR	X	X	◆◆	X	X	X	■	X	■	X
H102 Tŷ-gwyn / 17 - Ty Gwyn / Ty Gwyn, Carno,	X	X	◆◆	X	X	X	■	X	■	X

Key: Common Receptors ◆◆: Significant effects ◆: Effects close to significance threshold ■ Non-significant effects										
Receptor	Ch 5: Ecology	Ch 6: Ornithology	Ch 7: Landscape and Visual	Ch 8: Historic Environment	Ch 9: Hydrology	Ch 10: Geology and Soils	Ch 11: Noise	Ch 12: Traffic and Transport	Ch 13: Shadow Flicker	Ch 14: Aviation and Radar, and Telecommunications
Caersws, SY17 5JR							■		■	
19 - Carreg Ateb / Carreg Ateb, Pontdolgoch, Caersws, SY17 5NE	X	X	◆◆	X	X	X	X	X	■	X
22 - Pen y Bryn / Pen Y Bryn, Carno, Caersws, SY17 5JR	X	X	◆◆	X	X	X	X	X	■	X
Ecological Receptors										
Llyn Mawr SSSI	■	■	X	X	■	X	X	X	X	X
Gregynog SSSI	■	X	X	X	■	X	X	X	X	X

ASSESSMENT

15.10.2 The technical assessments (**Chapters 5-14**) in the ES have identified potential effects on common receptors as a result of the Proposed Development, as summarised in **Table 15-3**. The table shows that zero common receptors are anticipated to experience more than one significant effect or effect close to the threshold of significance.

15.11 SIGNIFICANCE CONCLUSION

15.11.1 The assessment of combined effects has considered whether any of the individual environmental topic effects resulting from the Proposed Development could combine to create effects that are significant, on common receptors between technical topics. The assessment focused on those receptors where significant effects have been predicted in respect of at least two or more topics and/or where the technical assessments have shown that potential individual effects are nearing the thresholds of established national criteria.

It has been concluded that there would be no significant combined effects as a result of the Proposed Development.



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