

Appendix 3

Approach to EIA

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A3.5 CUMULATIVE LIST

- A3.5.1 In accordance with Planning Inspectorate's Advice Note 17: Cumulative Effects Assessment¹, a long list of developments to be considered as part of each specialist discipline's cumulative assessment has been gathered. This includes both wind and non-wind developments.
- A3.5.2 The scope of each discipline's cumulative wind assessment can be found in their specific chapter. The scope of the non-wind cumulative assessment is described in the following paragraphs.
- A3.5.3 For non-wind sites, Zones of Influence (Zoi) were established for each specialist discipline. These are shown in table A3.5.1.
- A3.5.4 Within the ZoIs, all NSIP, DNS, EIA and Major Developments falling within the following categories were gathered to create the long list.
- Developments in Scoping that have a layout in the public domain, depending on the level of certainty of them coming forward to application.
 - Developments that have been through, or are in, Statutory Consultation
 - Developments that are currently under construction.
 - Developments with planning permission that are still live, but not yet implemented.
 - Submitted planning applications which are not yet determined.
 - Refusals subject to appeal procedures not yet determined.
- A3.5.5 A cut-off date of 16.03.23 was applied, after which no new developments coming into the planning system have been included in the long list. This was to enable the assessments to progress on a reasonable timeline, without the requirement to re-do cumulative assessments due to changing data.
- A3.5.6 Disciplines reviewed the long list and refined it into a short list relevant to their topic area by scoping out developments where it was considered that there is not a potential for significant cumulative effects to occur, or where developments do not have at least a Scoping Report or Environmental Statement (if EIA development) in the public domain containing layout data.
- A3.5.7 The full long list, including both wind and non-wind sites, is contained in tables A3.5.2 and A3.5.3 below.

¹ Available at - [HTTPS://INFRASTRUCTURE.PLANNINGINSPECTORATE.GOV.UK/LEGISLATION-AND-ADVICE/ADVICE-NOTES/ADVICE-NOTE-17/](https://infrastructure.planninginspectorate.gov.uk/legislation-and-advice/advice-notes/advice-note-17/) [Accessed 30/03/23]

Wind Farm/ Turbine Developments

Table A3.5.1 Discipline Specific Zones of Influence (Zoi) for non-wind projects

Disciplines	Zone of Influence (Zoi)	Type of Project/Development	Rationale
Ecology and Ornithology	Construction and Operation (international statutory designations): 10 km	NSIPS within 10 km	This range represents a precautionary maximum distance at which significant effects from a development have potential to occur for the species and habitats that have been recorded on site.
	Construction and Operation (other statutory designations): 2 km	DNS withing 10 km	
	Construction and Operation (notable habitats and protected/ notable species): 1-2 km	Major Applications within 2 km	
	Construction and Operation (ponds): 250 m	Distances measured from site boundary	
Landscape and Visual	45 km from outermost turbine	NSIPS and DNS within 45km	This range represents precautionary distances within which potential significant cumulative effects could occur when considering the Proposed Development alongside a cumulative project of a certain scale.
		Major Applications and LDP applications within 10 km	
		Distances measured from outermost turbine	
Aviation	n/a	n/a	Non-wind cumulative effects on aviation could only occur (a) in the operational phase if those non-wind developments involved moving structures that were of sufficient height to have the potential to be detected by aviation radars, and/or (b) in the construction, operational and decommissioning phases if the non-wind developments were of sufficient height to present a collision hazard to aircraft. Few if any non-wind developments meet either of those criteria therefore it is not considered necessary to account for non-wind developments in the cumulative assessment of the proposed development on aviation.
Traffic & Transport	Any development that generates significant traffic volumes within the study road network.	Any significant traffic generating development within the study road network.	No specific range - only includes sites where a Transport Statement or Transport Assessment has been included and is the public domain.
Cultural Heritage	Construction and Operation (international statutory designations – scheduled monuments; grade I and II* Listed buildings; registered historic parks and gardens; conservation areas): 10 km	NSIPS within 10km	This range represents a precautionary maximum distance at which significant effects from a development could occur – typically intervening on the setting or intervisibility between designated historic assets – or where an adjacent development may also directly impact archaeological remains that extend beyond the site boundary.
		DNS withing 10km	
	Construction and Operation (Grade II listed buildings): 5 km	Major Applications within 5km	
	Construction and Operation (non-designated archaeological sites recorded on the GGAT HER or NMR): 500 m	LPD applications within 5km	
		Distances measured from outermost turbine	
Hydrology	Catchment based - within the same hydrological catchments as the Proposed Development is sited.	NSIPS, DNS, Major and LDP applications being constructed at the same time and within the same hydrological catchments as the Proposed Development	This is a catchment-based approach where multiple developments under construction concurrently creates the possibility of degradation of water quality and/or increased flood risk.
Noise	BESS/Substation	BESS/Substation	BESS/Substation
	Operational substation/battery storage noise needs to be considered, as noise can be a limiting factor.	Only the development in question.	The noise is assessed using BS4142, which considers the different between the background noise the specific noise of the development. The background consists of sounds from all other sources.

Disciplines	Zone of Influence (Zol)	Type of Project/Development	Rationale
	Construction Any construction activity that affects our receptors within 10 dB of the Category A day-time, evening and night-time values. If no evening or night-time construction will take place then within 10 dB of that category A level of 65 dB(A). Distances measured from outermost turbine	If other sources are being built nearby that is not part of the development or the measured background, then they are considered as part of the background. Construction Any construction that could affect the receptors. However, any noise limit would be particular to that development.	Construction In line with BS5228

Table A3.5.2 Wind farm/ turbine developments

Name	County	Status	Shortest distance between development turbines and Y Bryn turbines (m)	NoTurbines	Hub Height (m)	Tip Height (m)	Eastings	Northings	Planning app ref
Abergorki	RCT	Consented	13363	3	100	149.9	295781	199236	13/0663/10 18/0523/15
Abertillery Wind Farm	Blaenau Gwent	Pre-application	41252	6		200			DNS/3278009
Bryn Gobaith farm	RCT	Pre-application	N/A	3					22/0092/35
Bwlfa Farm	RCT	Operational	12613	1	50	76	296188	193580	13/0960/10
Cefn Forest Farm	Merthyr	Operational	25803	1	50	77	309177	197972	P/14/0228
Cefn Gwrgan Road	Neath Port Talbot	Submitted	3437	1	15	21	278430	186965	P2022/1048
Ferndale	Rhondda Cynon Taf	Operational	14817	8	50	74	299327	195853	03/0226, Appeal: App/L6940/A/04/754
Fforch Dwm Wind Farm	Neath Port Talbot	Pre-application	4177	7		200	282616	198055	P2022/0350 DNS/3255801
Fforch Nest 1 and 2	Rhondda Cynon Taf/ Bridgend	Operational	12417	7	70	115	295847	190718	06/1842/10 P/06/1080/FUL
Fforch Nest 1 and 2	Rhondda Cynon Taf/ Bridgend	Operational	12417	4	70	115	296934	191661	06/1842/10 P/06/1080/FUL
Ffynnon Oer	Neath Port Talbot	Operational	4121	16	58	93	284442	199531	P2002/1322
Foel Trawsnant	Neath Port Talbot	Consented	200	11	100	145	283979	193524	P2018/0153
Foel Trawsnant (S73 application)	Neath Port Talbot	Submitted	200	8	86.5	145	283979	193530	P2022/0517
Ford Motor Company	Bridgend	Operational	14607	1	52	79	292934	178195	P/13/719/FUL
Gelli Feddgaer	RCT	Pre-application	N/A	2		150			21/1659/35
Graig Fatha	Rhonda Cynon Taf	Consented	18584	1	75	126	301279	185404	17/0493/10
Haregrove Farm	Bridgend	Operational	8664	1	30	45	286331	180548	P/13/827/FUL
Hifynydd Renewable Energy Park	Neath Port Talbot	Pre-application	12003	7	119m	200	281006	206060	CAS-02084-T4Z8W4
Hill house wind farm	VoG	Operational	16973	1	50	77	296531	178975	2013/00633/FUL
Land At Kenfig Industrial Estate Margam	Neath Port Talbot	Consented	5620	1	65	100	279765	183502	P2022/0372
Land South of Gelli Las Farm	Bridgend	Operational	5755	2	30	45	288209	186310	P/12/740/FUL
Llynfi Afan Renewable Energy Park	Neath Port Talbot / Bridgend	Operational	4854	12	78	118	290592	195363	P/10/844/FUL
Llwyncelyn (Llanwonno)	Rhondda Cynon Taf	Consented	19845	2	75	125	303627	192833	15/1635/10
Maerdy	Rhondda Cynon Taf	Operational	12849	8	94.5	145	296010	200482	11/0198/10
Maesgwyn (extension)	Neath Port Talbot	Operational	14162	1	80	125	284698	208302	P2014/0733
Manmoel Wind Farm	Blaenau Gwent / Torfaen	Pre-application	35428	5	112	180	316340	207310	DNS 3239181
Manmoel Wind Farm	Blaenau Gwent / Torfaen	Pre-application	35537	5	112	180	316579	207026	DNS 3239181

			Shortest distance between development turbines and Y Bryn turbines (m)						
Name	County	Status		NoTurbines	Hub Height (m)	Tip Height (m)	Eastings	Northings	Planning app ref
Melin Court	Neath Port Talbot	Consented	6485	5	100	149.9	284521	200748	P2014/0883 P2022/0216
Mynachdy Farm 1	Rhondda Cynon Taf	Operational	20287	1	67	35	303925	195530	16/0540/39
Mynachdy Farm 2	Rhondda Cynon Taf	Operational	20255	1	67	35	303984	195445	16/0540/39
Mynydd Brombil	Neath Port Talbot	Operational	1632	4	60	100	279043	188990	P2012/0638, appeal: APP/Y6930/A/14/2226525
Mynydd Carn-y-Cefn	Blaenau Gwent	Submitted	37822	8	105	180	319825	204810	PEDW ref - 3270299
Mynydd Llanhilleth	Blaenau Gwent / Torfaen	Pre-application	41887	8	122	180	324630	202630	21/P/0491/DNS
Mynydd Portref	Rhondda Cynon Taf	Operational	16066	11	49	75	298757	185520	06/1325
Mynydd Portref Extension	Rhondda Cynon Taf	Operational	16808	6	70	110	299579	185884	12/0704/10
Mynydd y Bettws	Carmarthenshire	Operational	21467	15	63.3	110	265262	209897	E/10446
Mynydd y Gaer Wind Farm	Bridgend	Pre-application	12246						CAS-01773-Z5L1D0
Mynydd y Glyn	RCT	Pre-application	19530	7	110	175	302987	189734	DNS/3280378 22/1129/05 21/1312/36
Mynydd Y Gwair (resubmission)	Swansea	Operational	20516	16	80	127	264523	207812	2012/1221
Nant-y-Gwyddon Landfill Site	Rhondda Cynon Taf	Consented	14186	1	58	99	297762	193873	17/0321/10 21/0864/15 22/0592/15
Newlands WindFarm	Neath Port Talbot	Operational	4830	1	46.9	77	281467	183873	P2013/0300
Newton Down	Bridgend	Operational	8456	2	80	125	284252	179465	P/12/368/FUL
Oakdale Business Park	Caerphilly	Operational	36040	2	80	130	319004	199935	11/0552/FULL
Pant y Wal	Bridgend	Operational	11896	11	70	115	295715	191931	P/06/417/FUL
Pant y Wal Extension	Bridgend	Operational	10903	8	80	125	294454	191588	P/14/293/FUL
Pant y Wal Extension (Phase 2)	Bridgend	Consented	11427	2	80	125	294855	190442	P/20/42/FUL
Parc Stormy Down	Bridgend	Operational	8865	2	65	105	284118	180160	P/11/531/FUL
Pen Bryn Oer	Caerphilly	Operational	32548	3	72	110	312347	209106	13/0483/FULL, appeal: APP/K6920/A/14/2221852
Pen March	Merthyr	Pre-application	30235	6		180	307733	210855	DNS/3253147
Pen Y Cymoedd	Rhondda Cynon Taf / Neath Port Talbot	Operational	2920	76	89.5	143.5	283758	197736	DECC (S36)
Pen-y-fan (Ind Est)	Caerphilly	Operational	36712	1	85	123.5	319560	199879	13/0824/FULL
Queens Dock - (earlier)	Swansea	Operational	13962	1	?	43	267116	191820	2002/0879
Queens Docks (later)	Swansea	Operational	13521	1	50	77	267428	191919	2014/0260

			Shortest distance between development turbines and Y Bryn turbines (m)						
Name	County	Status	NoTurbines	Hub Height (m)	Tip Height (m)	Eastings	Northings	Planning app ref	
Rhiwfelin	RCT	Consented	21055	1	59	90	303876	185605	21/0661/10
Silent Valley Waste	Blaenau Gwent	Pre-application	37188	1			318430	206852	C/2022/0151
Swansea Bay Wastewater Works	Swansea	Operational	12511	1	50	77	268768	192971	2013/1033
Taff Ely	Rhondda Cynon Taf	Operational	14802	20	35	53.5	297769	186985	not identified
Taff Ely (repowering)	Rhondda Cynon Taf	Consented	15093	7	69	110	297795	186220	11/1468/10
Trecelyn Wind farm	Torfaen	Pre-application	~ 43,000	5	86.5	145			22/P/0628/STAT DNS CAS-02114-J9X4S6
Tresgyrch Fawd Fawr road	Neath Port Talbot	Pre-application	21142	1		150	268504	208808	P2022/0159
Twyn Hywel Energy Park	RCT	Pre-application	26400	14		200	309884	190507	22/1272/05
Upper Ogmore	Bridgend	Consented	6957	7	77.5	130	290447	194753	DNS Ref: DNS/3213662
Wentloog Environmental Centre	Cardiff	Operational	41595	1	85	135	323608	179111	07/02286/E
West of Rhiwfelin Fach Farm	RCT	Operational	20862	1	34	60	303641	185342	16/0124/10
Wind Turbines North of Rassau Industrial Estate	Blaenau Gwent	Pre-application	36090	5					DNS CAS-02060-F3S0H4

Nationally Significant Infrastructure Projects (NSIP), Developments of National Significance (DNS), and Major Developments

Table A3.5.3: NSIP DNS and Major Developments

NSIP/DNS/Major Development	Type of development	Name/ short description	County	Status	Distance to nearest Y Bryn turbine (m)	Eastings	Northings	Planning app ref
NSIP	Power station	Internal Power Generation Enhancement for Port Talbot Steelworks	Neath Port Talbot	Consented	3709	277260	188349	No planning ref. available.
NSIP	Power station	Hirwaun Power Station	Rhondda Cynon Taf	Consented	16169	293800	206100	EN010059
NSIP	Power station	Abergelli Power	Swansea/ Abertawe	Consented	19441	265284	201431	EN010069
NSIP	Tidal lagoon	Tidal Lagoon Swansea Bay	Swansea/ Abertawe	Consented	12466	268532	191000	EN010049
DNS	Solar	Wauntysswg - Solar	Blaenau Gwent	Consented	32658	313540	206794	DNS/3213639 C/2019/0280
DNS	STOR	Felindre Road STOR (Short Term Operating Reserve)	Bridgend	Consented	15730	296847	181403	DNS/3213704 P/19/797/DNS
DNS	Solar	Tycroes Solar Farm	Carmarthenshire	Consented	28743	259219	209550	DNS/3227364 DNS/00427
DNS	Solar	Llangennech Solar Farm (previously Penderi/Felinfoel solar)	Carmarthenshire	Consented	30870	254264	204719	DNS/3213164 DNS/00422
DNS	STOR	Coed Darcy - STOR	Neath Port Talbot	Consented	11774	271548	195925	DNS/3213487
DNS	Solar	Circuit of Wales Solar Farm	Blaenau Gwent	Pre-Application	36582	314790	212732	CAS-01817-C5Z4T3
DNS	Solar	Tythegston Estate Solar Farm	Bridgend	Pre-Application	9382	284185	179669	DNS/3239202 P/22/120/DNS
DNS	ERF	Llynfi Energy Recovery Facility	Bridgend	Pre-Application	5827	288534	186882	DNS/3253154
DNS	Solar	Ty'n Y Waun Solar	Bridgend	Pre-Application	11186	293360	184536	DNS/3279521
DNS	Solar	Cwm I for Solar Farm	Caerphilly	Pre-Application	29931	313471	189577	DNS/3266623
DNS	Solar	Pencaerlan Solar/Seven Sister Solar Farm	Neath Port Talbot	Pre-Application	15474	280205	208705	DNS/3272424
DNS	Solar	Eirlys Solar Farm	Neath Port Talbot	Pre-Application	2164	282625	186695	CAS-01977-L5K6R7
DNS	Solar	Meillion Solar Farm	Neath Port Talbot	Pre-Application	12247	272225	199265	CAS-02425-G5S2K4
DNS	Solar	Parc Solar Caenewydd, Gowerton	Swansea	Pre-Application	21994	260087	196895	CAS-01900-V0J7C7
DNS	Solar	Gwenlais Solar Farm	Swansea	Pre-Application	23454	260577	201500	CAS-02282-Z9M8L7
DNS	Solar	Craig Y Perchych Solar	Swansea	Pre-Application	13850	271697	201454	DNS/3279676
DNS	Solar	Pentre Bach Solar Farm	Torfaen	Pre-Application	44424	328203	192300	DNS/3239190 21/P/0005/STAT
DNS	Solar	Oaklands Solar Farm and BESS	Vale of Glamorgan	Pre-Application	29188	307677	173278	DNS/3245503
DNS	Solar	Land at Pen Onn Solar Farm	Vale of Glamorgan	Pre-Application	30456	306415	169406	DNS/3273713
DNS	Solar	East Aberthaw Solar	Vale of Glamorgan	Pre-Application	30837	305179	167481	CAS-01391-M3G6Q9
DNS	Solar	Rock Solar Farm	Vale of Glamorgan	Pre-Application	28695	302553	167918	CAS-01847-Z9D2Q2
DNS	Solar	Parc Worlton Solar Farm	Vale of Glamorgan	Pre-Application	32042	309978	171565	CAS-02112-T2N0G8

NSIP/DNS/Major Development	Type of development	Name/ short description	County	Status	Distance to nearest Y Bryn turbine (m)	Eastings	Northings	Planning app ref
DNS	Solar	Maes Mawr Solar	Rhondda Cynon Taf	Submitted	27320	310250	185850	DNS/3282038
DNS	Solar	Brynryhd Solar Farm	Swansea	Submitted	28369	259065	208081	DNS/3260565
DNS	Solar	Brynwell Farm Renewable Energy Hub	Vale of Glamorgan	Submitted	34394	314468	174918	DNS/3261558
DNS	Solar	Parc Dyffryn Solar Park	Vale of Glamorgan	Submitted	31054	310271	174001	DNS/3267575
Major Development	Dwellinghouses >10	35 homes	Bridgend	Consented	1297	285073	193043	P/21/547/RLX
Major Development	Dwellinghouses >10	200 homes	Bridgend	Consented	9883	288587	180776	P/17/1043/RLX
Major Development	Minerals/ quarrying	Quarry restoration	Bridgend	Consented	5766	285800	183900	P/16/128/FUL
Major Development	Waste	Waste storage	Bridgend	Consented	7718	289081	184114	P/20/289/FUL
Major Development	Waste	Biomethane gas to grid	Bridgend	Consented	8866	284197	180160	P/18/663/FUL
Major Development	Waste	Anaerobic Digestion facility	Bridgend	Consented	8961	284247	180073	P/21/237/RLX
Major Development	Dwellinghouses >10	12 homes	Neath Port Talbot	Consented	1553	281455	192478	P2019/5330
Major Development	Dwellinghouses >10	Afan Valley Adventure Resort	Neath Port Talbot	Consented	2673	284779	195974	P2022/0776
Major Development	Dwellinghouses >10	25 homes	Neath Port Talbot	Consented	3087	278154	187690	P2021/0108
Major Development	Dwellinghouses >10	18 homes	Neath Port Talbot	Consented	4101	276817	189614	P2021/0856
Major Development	Dwellinghouses >10	Mixed commercial and residential	Neath Port Talbot	Consented	8799	275416	197559	P2018/0765
Major Development	Dwellinghouses >10	32 flats	Neath Port Talbot	Consented	8678	275345	197521	P2021/0282
Major Development	Dwellinghouses >10	137 homes	Neath Port Talbot	Consented	6238	274666	189554	P2021/0226
Major Development	Dwellinghouses >10	52 homes	Neath Port Talbot	Consented	8464	274960	196102	P2021/0428
Major Development	Dwellinghouses >10	26 homes	Neath Port Talbot	Consented	7980	280992	201156	P2018/0301
Major Development	Minerals/ quarrying	Mine water treatment scheme	Neath Port Talbot	Consented	8218	280476	201218	P2021/0551
Major Development	Site area >1.0ha	Town centre redevelopment	Neath Port Talbot	Consented	8630	275464	197638	P2018/1024
Major Development	Site area >1.0ha	Industrial	Neath Port Talbot	Consented	5863	279659	183318	P2019/5243
Major Development	Waste	Waste transer facility	Neath Port Talbot	Consented	5017	275872	189149	P2018/0469
Major Development	Waste	Waste disposal skips	Neath Port Talbot	Consented	9109	273893	194034	P2022/0606
Major Development	Waste	Asbestos waste transfer station	Neath Port Talbot	Consented	7039	274352	192339	P2022/0769
Major Development	Dwellinghouses >10	405 homes	Bridgend	Operational	7691	289036	184102	P/19/915/RES
Major Development	Dwellinghouses >10	10 apartments	Bridgend	Operational	7789	289400	184411	P/18/1012/FUL
Major Development	Minerals/ quarrying	Concrete brick plant	Bridgend	Operational	8950	282151	179908	P/18/225/GPN
Major Development	Buildings >1000sqm	Foodstore	Neath Port Talbot	Operational	9398	274528	197507	P2019/5304
Major Development	Buildings >1000sqm	Industrial	Neath Port Talbot	Operational	7534	273967	192713	P2021/0956
Major Development	Dwellinghouses >10	10 flats	Neath Port Talbot	Operational	3962	276984	189877	P2019/0074
Major Development	Dwellinghouses >10	31 homes	Neath Port Talbot	Operational	8131	275411	196368	P2018/0414
Major Development	Dwellinghouses >10	31 apartments/ homes	Neath Port Talbot	Operational	9392	273810	195427	P2018/0746
Major Development	Dwellinghouses >10	10 flats	Neath Port Talbot	Operational	8799	275171	197452	P2019/5495

NSIP/DNS/Major Development	Type of development	Name/ short description	County	Status	Distance to nearest Y Bryn turbine (m)	Eastings	Northings	Planning app ref
Major Development	Dwellinghouses >10	20 homes	Neath Port Talbot	Operational	8941	274479	196168	P2019/5611
Major Development	Site area >1.0ha	Industrial	Neath Port Talbot	Operational	5679	279926	183439	P2019/5029
Major Development	Waste	Single-storey extension to waste recycling centre	Neath Port Talbot	Operational	9125	273844	193906	P2018/0485
Major Development	Buildings >1000sqm	Business park extension	Neath Port Talbot	Pre-Application	8739	282114	202218	P2018/0849
Major Development	10 office, industrial and Storage and Distribution units	Industrial	Neath Port Talbot	Pre-Application	3295	279214	186358	P2020/0104
Major Development	Minerals/ quarrying	Quarry extension	Neath Port Talbot	Pre-Application	9983	275420	199916	P2019/0077
Major Development	Minerals/ quarrying	Extraction and quarry restoration	Neath Port Talbot	Pre-Application	9287	287070	202193	P2021/1230