

APPENDIX 8.4:

CUMULATIVE WIND FARM TURBINE LOCATIONS

Operational Wind Farms

Bryn Titli

Carno

Carno Extension

CAT Repowering

Cefn Croes

Cemaes II

Llandinam P & L (existing)

Llangwryryfon

Mynydd Clogau

Mynydd Gorddu

Rheidol

Carnedd Wen

Wind Farms in Planning/Scoping

Carno 3

Esgair Cwmowen

Garreg Lwyd Wind Farm

Hirddywell

Llanbrynmair

Llandinam P & L repowering

Nant y Moch

Bryn Titli

Turbine Number	Easting	Northing	Height to tip
1	293499	274028	48.50
2	293531	274273	48.50
3	293748	274238	48.50
4	293817	274466	48.50
5	293502	274470	48.50
6	293701	274628	48.50
7	293502	274702	48.50
8	293334	274743	48.50
9	293168	274812	48.50
10	293032	274854	48.50
11	292569	275016	48.50
12	292602	275256	48.50
13	292664	275469	48.50
14	292769	275646	48.50
15	292873	275898	48.50
16	292902	276097	48.50
17	293141	276152	48.50
18	293272	275821	48.50
19	293395	275733	48.50
20	293476	275607	48.50
21	293556	276027	48.50
22	293747	275648	48.50

Carno

Turbine Number	Easting	Northing	Height to tip
2	290208	295861	56.00
2	290318	295986	56.00
3	290371	296190	56.00
4	290602	296101	56.00
5	290513	295873	56.00
6	290350	295713	56.00
7	290721	295796	56.00
8	290818	295675	56.00
9	291038	295678	56.00
10	291038	295841	56.00
11	291035	296069	56.00
12	291174	296181	56.00
13	291298	296110	56.00
14	291325	295918	56.00
15	291319	295743	56.00
16	291292	295604	56.00
17	290958	295103	56.00
18	291094	295192	56.00
19	291260	295147	56.00
20	291307	294949	56.00
21	291527	295147	56.00
22	291559	295393	56.00
23	291675	294946	56.00
24	291838	295150	56.00
25	291838	295408	56.00
26	291651	295645	56.00
27	291601	295743	56.00
28	291604	295924	56.00
29	291583	296095	56.00
30	291832	296007	56.00
31	292101	295269	56.00
32	292380	294475	56.00
33	292403	294676	56.00
34	292309	294780	56.00
35	292646	294774	56.00
36	292685	294670	56.00
37	292786	294875	56.00
38	292424	295453	56.00
39	292371	295627	56.00

40	292024	295455	56.00
41	291953	295565	56.00
42	291915	295666	56.00
43	292321	296018	56.00
44	292155	296155	56.00
45	292018	296178	56.00
46	291832	296187	56.00
47	292276	296469	56.00
48	292134	296469	56.00
49	291956	296487	56.00
50	291796	296421	56.00
51	291799	296587	56.00
52	291521	296469	56.00
53	291447	296620	56.00
54	291352	296706	56.00

Carno Extension

Turbine Number	Easting	Northing	Height to tip
1	290208	295861	44
2	290317	295985	44
3	290371	296190	44
4	290602	296101	44
5	290513	295873	44
6	290350	295713	44
7	290720	295796	44
8	290818	295674	44
9	291037	295677	44
10	291037	295840	44
11	291034	296068	44
12	291173	296181	44
13	291298	296110	44
14	291325	295917	44
15	291319	295742	44
16	291292	295603	44
17	290957	295102	44
18	291093	295191	44
19	291259	295147	44
20	291307	294948	44
21	291526	295147	44
22	291559	295393	44
23	291674	294945	44
24	291837	295150	44
25	291837	295408	44
26	291650	295645	44
27	291600	295742	44
28	291603	295923	44
29	291582	296095	44
30	291831	296006	44
31	292101	295268	44
32	292379	294474	44
33	292403	294676	44
34	292308	294779	44
35	292646	294774	44
36	292684	294670	44
37	292785	294874	44
38	292424	295452	44
39	292370	295627	44

40	292024	295455	44
41	291953	295565	44
42	291914	295665	44
43	292320	296018	44
44	292154	296154	44
45	292018	296178	44
46	291831	296187	44
47	292276	296468	44
48	292133	296468	44
49	291956	296486	44
50	291796	296421	44

CAT Repowering

Turbine Number	Easting	Northing	Height to tip
1	276900	304700	54

Cefn Croes

Turbine Number	Easting	Northing	Height to tip
1	280649	280596	90
2	280744	280413	90
3	280761	280233	90
4	280801	280057	90
5	280812	279884	90
6	280920	279744	90
7	280926	279570	90
8	280466	279144	100
9	280458	278935	100
10	280442	278727	100
11	280463	278527	100
12	280168	278208	100
13	280138	278007	100
14	280113	277809	90
15	280090	277634	90
16	280094	277459	90
17	280861	278686	100
18	280851	278466	100
19	281209	279534	90
20	281229	279355	90
21	281239	279175	100
22	281488	279025	100
23	281497	278826	100
24	281519	278646	100
25	281775	280060	100
26	281891	279902	100
27	282017	279753	100
28	282047	279545	100
29	282146	279395	100
30	282196	279216	100
31	282833	278887	100
32	282923	278735	100
33	282993	278577	100
34	282993	278378	100
35	282993	278178	100
36	283332	277997	100
37	283520	277908	100
38	283699	277788	100
39	283839	277669	100

Cemmaes II

Turbine Number	Easting	Northing	Height to tip
1	286828	305501	76.00
2	286829	305777	76.00
3	287022	306001	76.00
4	286732	306137	76.00
5	286731	306355	76.00
6	286712	306605	76.00
7	286765	306847	76.00
8	287088	306875	76.00
9	286842	307310	76.00
10	287035	307453	76.00
11	287319	307517	76.00
12	287000	307700	76.00
13	286929	307977	76.00
14	287014	308183	76.00
15	287238	308327	76.00
16	287379	308477	76.00
17	287475	308613	76.00
18	287608	308883	76.00

Llandinam P & L (existing)

Turbine Number	Easting	Northing	Height to tip
1	301884	281025	45.50
2	301945	280968	45.50
3	302019	280940	45.50
4	302086	280931	45.50
5	302181	280905	45.50
6	302557	281040	45.50
7	302449	281083	45.50
8	302282	281147	45.50
9	302189	281204	45.50
10	302126	281256	45.50
11	302060	281309	45.50
12	301966	281349	45.50
13	302282	281510	45.50
14	302333	281439	45.50
15	302429	281399	45.50
16	302538	281388	45.50
17	302630	281349	45.50
18	302687	281308	45.50
19	302744	281279	45.50
20	302667	281669	45.50
21	302595	281720	45.50
22	302504	281744	45.50
23	302410	281760	45.50
24	302296	281816	45.50
25	302194	281964	45.50
26	302102	281965	45.50
27	302025	281997	45.50
28	301969	282037	45.50
29	301885	282074	45.50
30	302581	282085	45.50
31	302504	282117	45.50
32	302428	282128	45.50
33	302349	282150	45.50
34	302282	282194	45.50
35	302230	282239	45.50
36	302163	282299	45.50
37	302078	282348	45.50
38	302761	282331	45.50
39	302677	282375	45.50

40	302583	282418	45.50
41	302518	282447	45.50
42	302429	282481	45.50
43	302338	282496	45.50
44	302252	282535	45.50
45	302170	282572	45.50
46	302109	282616	45.50
47	302049	282668	45.50
48	302653	282710	45.50
49	302580	282745	45.50
50	302491	282811	45.50
51	302401	282838	45.50
52	302313	282871	45.50
53	302241	282908	45.50
54	302182	282958	45.50
55	302104	283011	45.50
56	302738	283000	45.50
57	302680	283050	45.50
58	302583	283089	45.50
59	302493	283107	45.50
60	303757	283534	45.50
61	303641	283562	45.50
62	303882	283641	45.50
63	303992	283769	45.50
64	303890	283785	45.50
65	303783	283837	45.50
66	303687	283872	45.50
67	303590	283912	45.50
68	304147	283898	45.50
69	303977	283984	45.50
70	303904	283998	45.50
71	303834	284040	45.50
72	303609	284218	45.50
73	303507	284238	45.50
74	304016	284292	45.50
75	303929	284306	45.50
76	303826	284338	45.50
77	303724	284392	45.50
78	303638	284444	45.50
79	303557	284500	45.50
80	303370	284593	45.50
81	304020	284578	45.50
82	303941	284588	45.50

83	303851	284610	45.50
84	303740	284652	45.50
85	303648	284694	45.50
86	303567	284736	45.50
87	303353	284878	45.50
88	303268	284934	45.50
89	303165	284950	45.50
90	304044	284769	45.50
91	303955	284806	45.50
92	303866	284852	45.50
93	303740	284904	45.50
94	303642	284962	45.50
95	303570	285011	45.50
96	303485	285065	45.50
97	303913	285139	45.50
98	303814	285195	45.50
99	303713	285252	45.50
100	303957	285303	45.50
101	303888	285361	45.50
102	303785	285413	45.50

Llangwryryfon

Turbine Number	Easting	Northing	Height to tip
1	261820	269124	42.00
2	261918	269330	42.00
3	261989	269591	42.00
4	262071	269766	42.00
5	262178	268792	42.00
6	262153	269084	42.00
7	262259	269338	42.00
8	262506	269534	42.00
9	262607	269836	42.00
10	262750	269716	42.00
11	262846	270011	42.00

Mynydd Clogau

Turbine Number	Easting	Northing	Height to tip
1	301993	298163	47
2	302270	298419	47
3	302377	298056	47
4	303103	297875	47
5	303183	298099	47
6	302718	298104	47
7	303519	298286	47
8	303834	298499	47
9	304100	298734	47
10	303919	299091	47
11	303545	298942	47
12	303263	298819	47
13	302943	298670	47
14	302638	298579	47
15	302734	298963	47
16	303124	299155	47
17	303455	299374	47

Mynydd Gorddu

Turbine Number	Easting	Northing	Height to tip
1	267093	286486	50.00
2	267190	286625	50.00
3	266954	286586	50.00
4	266749	286670	50.00
5	266335	286619	50.00
6	266380	286967	50.00
7	266235	287057	50.00
8	266468	287160	50.00
9	266583	287012	50.00
10	266522	287350	50.00
11	266253	287396	50.00
12	266232	287565	50.00
13	266317	287746	50.00
14	266531	287767	50.00
15	266450	287568	50.00
16	267081	286812	50.00
17	267269	287084	50.00
18	267474	287136	50.00
19	266534	286646	50.00

Rheidol

Turbine Number	Easting	Northing	Height to tip
1	272000	280700	46.00
2	272100	280600	46.00
3	272200	280500	46.00
4	272400	280400	46.00
5	272500	280400	46.00
6	272600	280500	46.00
7	272400	280600	46.00
8	272300	280600	46.00

Carnedd Wen

Turbine Number	Easting	Northing	Height to tip
1	293457	304432	137
2	293135	304598	137
3	293648	304822	137
4	292509	304714	137
5	292593	305058	137
6	292401	305415	137
7	292770	305775	137
8	293046	305290	137
9	293224	305746	137
10	293512	305466	137
11	293952	305467	137
12	293756	305834	137
13	293540	306189	137
14	294050	306183	137
15	293752	306541	137
16	293793	306949	137
17	294074	307395	137
18	294579	307337	137
19	294057	307774	137
20	293614	308409	137
21	294057	308607	137
22	295683	309628	137
23	296134	309519	137
24	296541	309423	137
25	296982	309745	137
26	296587	310195	137
27	296550	309801	137
28	296143	309908	137
29	296291	310615	137
30	295747	310034	137
31	295815	310397	137
32	295337	310094	137
33	295337	310454	137
34	295772	310744	137
35	295208	310778	137
36	294815	310210	137
37	294670	309826	137
38	294280	309930	137
39	294389	310294	137

40	294692	310655	137
41	294973	311040	137
42	294552	311107	137
43	294361	311387	137
44	293950	311442	137
45	293931	310983	137
46	294266	310741	137
47	293938	310402	137
48	293557	311115	137
49	293224	311339	137
50	293043	310998	137
51	293341	310716	137
52	293478	310391	137
53	293678	310015	137
54	293739	309675	137
55	293272	309655	137
56	293258	309988	137
57	292968	310309	137
58	292758	310602	137
59	292245	310563	137
60	292441	310267	137
61	292717	309697	137
62	292252	309869	137
63	291892	310201	137
64	291734	309854	137

Carno 3

Turbine Number	Easting	Northing	Height to tip
1	291701	294597	126.5
2	291383	294392	126.5
3	291311	294120	126.5
4	290575	294469	126.5
5	290121	294493	126.5
6	289979	294758	126.5
7	289632	294932	126.5
8	289944	294221	126.5
9	289667	294444	126.5
10	292091	294276	126.5
11	291892	293961	126.5
12	291521	293781	126.5
13	292337	293870	126.5
14	292562	293616	126.5
15	292989	293728	126.5
16	293373	293594	126.5
17	293126	293227	126.5

Esgair Cwmowen

Turbine Number	Easting	Northing	Height to tip
1	299997	301507	125
2	300059	301155	125
3	300232	301372	125
4	299864	300826	125
5	300235	300810	125
6	299257	300264	125
7	299616	300391	125
8	299927	300327	125
9	300169	300556	125
10	300553	300711	125
11	299521	300083	125
12	300323	300373	125
13	300656	300386	125
14	300946	300410	125
15	301115	300638	125
16	301331	300521	125
17	299756	299927	125
18	300346	300143	125
19	299924	299791	125

Garreg Lwyd Wind Farm

Turbine Number	Easting	Northing	Height to tip
1	314077	278776	126.5
2	313719	278813	126.5
3	314596	279042	126.5
4	314257	279082	126.5
5	313880	279128	126.5
6	313543	279204	126.5
7	314281	279433	126.5
8	313815	279489	126.5
9	313282	279451	126.5
10	314082	279723	126.5
11	313539	279694	126.5
12	314294	279998	126.5
13	313773	280096	126.5
14	313379	280045	126.5
15	313035	279770	126.5
16	313191	280351	126.5
17	313490	280494	126.5
18	313845	280628	126.5
19	314202	280647	126.5
20	312245	280351	126.5
21	312508	280550	126.5
22	312277	280775	126.5
23	312826	280256	126.5

Hirddywel

Turbine Number	Easting	Northing	Height to tip
1	303140	280691	125
2	302671	280616	125
3	302184	280513	125
4	302546	280232	125
5	302974	279870	125
6	303119	279632	125
7	302544	279925	125
8	302239	279656	125
9	302227	279383	125

Llanbrynmair

Turbine Number	Easting	Northing	Height to tip
R1	292202	305698	126.5
R2	291848	305240	126.5
R3	292161	304864	126.5
R4	292584	304272	126.5
R5	292925	304087	126.5
R6	293298	304091	126.5
R7	292960	304910	126.5
R8	293404	305090	126.5
R9	293763	304052	126.5
R10	293943	304561	126.5
R11	294244	304850	126.5
R12	294288	305267	126.5
R13	294242	305795	126.5
R14	294590	306305	126.5
R15	294938	306501	126.5
R16	294341	306803	126.5
R17	295230	306939	126.5
R18	293468	303641	126.5
R19	294486	307716	126.5
R20	294629	308073	126.5
R21	294245	308191	126.5
R22	293739	307968	126.5
R23	294680	305562	126.5
R24	294991	306123	126.5
R25	295014	307341	126.5
R26	295982	309095	126.5
R27	296419	309027	126.5
R28	292068	304468	126.5
R29	291927	303991	126.5
R30	292129	303601	126.5
R31	292325	303976	126.5
R32	292523	303622	126.5
R33	294974	308300	126.5
R34	295308	308106	126.5
R35	295407	308489	126.5
R36	295746	308372	126.5
R37	295669	308799	126.5
R38	296007	308635	126.5
R39	293542	303198	126.5
R40	296788	308936	126.5

R41	293019	303645	126.5
R42	295340	306551	126.5
R43	296818	308469	126.5

Llandinam P & L repowering

Turbine number	Easting	Northing	Height to tip
1	301884	281025	46.00
2	301944	280968	46.00
3	302018	280939	46.00
4	302085	280931	46.00
5	302180	280905	46.00
6	302557	281039	46.00
7	302448	281083	46.00
8	302282	281147	46.00
9	302189	281204	46.00
10	302126	281256	46.00
11	302059	281309	46.00
12	301965	281348	46.00
13	302282	281510	46.00
14	302332	281438	46.00
15	302429	281399	46.00
16	302537	281388	46.00
17	302630	281348	46.00
18	302687	281307	46.00
19	302744	281279	46.00
20	302667	281668	46.00
21	302594	281720	46.00
22	302504	281743	46.00
23	302410	281760	46.00
24	302295	281815	46.00
25	302194	281963	46.00
26	302101	281965	46.00
27	302025	281997	46.00
28	301969	282036	46.00
29	301885	282073	46.00
30	302580	282084	46.00
31	302504	282117	46.00
32	302427	282128	46.00
33	302348	282150	46.00
34	302282	282193	46.00
35	302230	282239	46.00
36	302163	282298	46.00
37	302078	282348	46.00
38	302761	282330	46.00
39	302677	282375	46.00

40	302583	282418	46.00
41	302517	282446	46.00
42	302429	282481	46.00
43	302337	282496	46.00
44	302252	282534	46.00
45	302169	282571	46.00
46	302109	282616	46.00
47	302048	282667	46.00
48	302652	282709	46.00
49	302579	282744	46.00
50	302490	282811	46.00
51	302400	282838	46.00
52	302312	282870	46.00
53	302241	282907	46.00
54	302181	282958	46.00
55	302104	283011	46.00
56	302737	283000	46.00
57	302679	283049	46.00
58	302583	283089	46.00
59	302493	283106	46.00
60	303756	283533	46.00
61	303640	283562	46.00
62	303881	283641	46.00
63	303991	283768	46.00
64	303890	283784	46.00
65	303782	283836	46.00
66	303686	283872	46.00
67	303590	283911	46.00
68	304147	283898	46.00
69	303976	283983	46.00
70	303903	283998	46.00
71	303833	284040	46.00
72	303608	284218	46.00
73	303507	284238	46.00
74	304016	284292	46.00
75	303928	284306	46.00
76	303826	284338	46.00
77	303723	284392	46.00
78	303638	284444	46.00
79	303556	284499	46.00
80	303370	284592	46.00
81	304020	284577	46.00
82	303941	284587	46.00

83	303850	284609	46.00
84	303739	284651	46.00
85	303648	284693	46.00
86	303566	284735	46.00
87	303353	284877	46.00
88	303267	284933	46.00
89	303165	284949	46.00
90	304043	284769	46.00
91	303954	284806	46.00
92	303865	284852	46.00
93	303739	284903	46.00
94	303642	284961	46.00
95	303570	285011	46.00
96	303485	285064	46.00
97	303912	285138	46.00
98	303813	285195	46.00
99	303712	285252	46.00
100	303957	285302	46.00
101	303887	285360	46.00
102	303785	285412	46.00

Nant y Moch

Turbine Number	Easting	Northing	Height to tip
1	273187	292245	146.50
2	273080	291864	146.50
3	273165	291555	146.50
4	272754	291462	146.50
5	272545	291722	146.50
6	272159	291419	146.50
7	273587	291952	146.50
8	273946	291831	146.50
9	274202	291640	146.50
10	274467	291494	146.50
11	274749	291396	146.50
12	274750	291047	146.50
13	272714	291040	146.50
14	273382	291095	146.50
15	273704	290820	146.50
16	273374	290766	146.50
17	273482	290431	146.50
18	274125	290537	146.50
19	274290	290285	146.50
20	274405	290020	146.50
21	274224	289385	146.50
22	274090	289069	146.50
23	276234	290126	146.50
24	276668	290248	146.50
25	277087	290336	146.50
26	275229	290078	146.50
27	274972	289755	146.50
28	274895	289405	146.50
29	275198	289621	146.50
30	275200	289061	146.50
31	274788	288980	146.50
32	274872	288603	146.50
33	272786	290107	146.50
34	273054	289994	146.50
35	273158	289669	146.50
36	272750	289373	146.50
37	272462	289516	146.50
38	272265	289146	146.50
39	273441	289463	146.50

40	273498	289038	146.50
41	272989	289063	146.50
42	272569	289009	146.50
43	272860	288418	146.50
44	270801	288770	126.50
45	271090	289170	126.50
46	271413	289270	126.50
47	271370	288940	126.50
48	270763	287453	126.50
49	271072	287328	126.50
50	271318	286676	126.50
51	271169	286907	126.50
52	270849	286936	126.50
53	270507	287046	126.50
54	270733	286366	126.50
55	270496	286474	126.50
56	270243	286598	126.50
57	274082	286427	146.50
58	274143	286068	146.50
59	274316	285755	146.50
60	274509	286379	146.50
61	274557	286063	146.50
62	274705	285885	146.50