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**The impact of solar photovoltaic (PV)
sites on agricultural soils and land
quality**

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The impact of solar photovoltaic (PV) sites on agricultural soils and land quality

Work Package Two B: Solar PV Sites in Wales

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1 OVERVIEW

1.1 Introduction

This report provides statistical analysis of built solar PV sites and agricultural land in Wales. The report concentrates on the area of and quality of agricultural land currently in use for solar PV sites in Wales. It provides a breakdown by individual site, local authority and nationally. The work, under the Welsh Government's Soil Policy Evidence Programme SPEP 2021-22/03, is to inform Welsh Government specialists when dealing with solar PV planning applications.

1.2 Sources of Information

This report relies on the data within the Department for Business, Energy and Industrial Strategy (BEIS) Renewable Energy Planning Database (June 2021 update)¹. The Renewable Energy Planning Database tracks the progress of UK renewable electricity projects over 150kW through the planning system. It provides as accurate and comprehensive a snapshot as possible of projects. The database is updated during the month following the end of each quarter.

This report also uses data from the Welsh Government Predictive Agricultural Land Classification (ALC) Map 2², Google³ and Bing⁴ satellite imagery and, sometimes, information held within the public planning portals.

1.3 Methodology

The BEIS Renewable Energy Planning Database (June 2021 update) and other sources were used to try and identify all built and currently operational ground-mounted solar PV sites in Wales.

¹ BEIS, 2021. Renewable Energy Planning Database: quarterly extract (June 2021 update). <https://www.gov.uk/government/publications/renewable-energy-planning-database-monthly-extract>

² Welsh Government, 2021. Predictive Agricultural Land Classification (ALC) Map 2. https://datamap.gov.wales/layers/inspire-wg:wg_predictive_alc2

³ Google, 2021. Google Earth. <http://earth.google.co.uk/>

⁴ Microsoft, 2021. Bing Aerial View. <https://bing.com/maps/aerial>

ADAS filtered the BEIS database to remove other generating types (e.g. wind, hydro etc), sites outside of Wales (e.g. England, Northern Ireland and Scotland), roof-mounted sites and sites not yet fully or partially built.

In some instances there is ambiguity in the BEIS Renewables Database as to whether or not a site is ground or roof mounted or if a site is built. In some instances the recorded information appears inaccurate in other instances the required information is missing. In these instances ADAS used search engines, satellite imagery, public planning portals, company websites and press releases to fill in the gaps. Some entries were removed from our sites of consideration because of this clarification process. The vast majority of sites appear to be recorded appropriately within the BEIS Renewables Database.

The BEIS Renewables Database provides x (easting) and y (northing) coordinates for each entry. ADAS used this information to populate the filtered Database in QGIS. It was then possible to pinpoint the location of each solar PV site, using satellite imagery and other GIS reference points.

By using Google and Bing satellite imagery and other GIS reference points ADAS were then able to create a redline boundary (site boundary) for each individual solar PV site. The redline boundary was drawn by hand on GIS. The process was to trace the outer fence line wherever visible⁵ or, if the outer fence line was not visible, to work to the natural boundary of the field(s) containing the site – such as a hedgerow or other fence line. Where a solar PV site sat either side of a public road, the redline boundary was curtailed to not include the road. Similar approaches were taken for other involved land uses such as woodland or ponds. Tracks which appeared to have been built purely to serve and access the solar PV site were included within the drawn redline boundary. Areas within the red line boundary may include areas not under panels but which still occupied land solely for use as part of solar PV sites. More recently built sites (c. 2019 onwards) were not necessarily shown on Google and Bing satellite imagery and in such instances Google Earth Pro⁶, which has different available satellite imagery via its ‘historical imagery’ tool, and design plans available via the public planning portals were used to fill in the gaps.

⁵ The outer fence line was mostly visible.

⁶ Google, 2021. Google Earth Pro: historical imagery. <https://www.google.co.uk/intl/en-GB/earth/download/gep/agree.html>

During the QGIS work described above ADAS identified two sites in addition to the filtered BEIS Renewables Database. These are Afon Llan, Swansea, Wessex Energy and Five Fords, Wrexham, Dwr Cymru. These sites are included in our analysis within this report. This does suggest that there are some solar PV sites missing from the BEIS Renewables Database but the Database is described as being *'as accurate and comprehensive a snapshot as possible of projects'* and should be sufficiently comprehensive as to provide an indication of the area of and quality of agricultural land taken for solar PV sites in Wales – which is the purpose of this work package.

The drawn redline boundaries were used to provide a total area (hectares) for each solar PV site in Wales plus the quantity and quality of agricultural land taken for each site, within each Local Authority District and Wales as a whole. This analysis is given in the following Section 2 of this report. The location of each solar PV site relative to Local Authority Districts and agricultural land classification can be seen in Figure 1, which is attached to this report as Appendix 1.

2 RESULTS

2.1 Details of individual solar PV sites

Table 2.1: Details of built solar PV sites in Wales

Local Authority	Ref	Site Name	Operator	MW	Post Code	X	Y	Date Operational
Blaenau Gwent	2176	Hafod-Y-Dafal Farm	KS SPV53 Ltd	14.0	NP13 2ER	320100	203640	22/12/2015
Bridgend	1787	Seaview Farm	Private Developer	1.7	CF36 5TB	282372	178754	30/03/2016
Bridgend	1982	Court Colman solar park	Suncredit UK/ Vogt Solar	15.0		287791	181659	15/11/2015
Bridgend	6520	Stormy Down Solar Farm	Belisama Energy	3.8	CF33 4RS	284154	180554	27/03/2017
Caerphilly	1985	Cwmcaesingrug Farm	Kronos Solar	10.0	NP12 2BG	319137	193566	02/03/2015
Caerphilly	2206	Penrhiwarwydd Farm	MTS Hill Farm Solar Ltd	8.5		319934	193293	26/03/2015
Caerphilly	2370	Hendai Farm	Conergy UK	13.4	CF82 8FU	311830	198070	01/03/2015
Caerphilly	4734	Land at Darran Farm	SRE (Darran)	2.6	NP12 0HX	318499	199490	30/03/2017
Caerphilly	5381	Upper Pant-Ysgawen Farm/Crumlin	Suncredit UK	4.9	NP11 4RJ	320409	197637	07/12/2016
Caerphilly	5437	Manmoel Road Solar Park	Pearmat Solar	4.1	NP12 0HZ	318604	201211	30/03/2017
Cardiff	6660	Lamby Way Solar Farm	Cardiff Council	8.9	CF3 2HP	321925	177854	01/05/2020
Carmarthenshire	1161	Ffos Las Racecourse	Private Developer	5.5	SA17 4DE	245478	205296	30/06/2012
Carmarthenshire	1356	Pont Andrew Solar Farm	Lightsource Renewable Energy	1.5		252617	210675	31/07/2012
Carmarthenshire	1503	Redcourt Farm	PS Renewables	3.3	SA33 5DR	237904	219365	30/03/2015
Carmarthenshire	1719	Caeremlyn Solar Farm	Munich RE	18.0	SA34 0SS	218627	217644	31/03/2014
Carmarthenshire	1781	Pen Y Cae solar farm	Rockfire Capital	6.9	SA18 3BJ	260143	211806	26/03/2015
Carmarthenshire	1951	Clawdd Ddu PV	Elgin Energy EsCo	13.5	SA18 3RE	259473	209981	26/03/2014
Carmarthenshire	2355	Saron Road solar park	Anesco	6.7	SA18 3TW	260904	212664	15/02/2015
Carmarthenshire	2363	Brynteg Farm	Brynteg Solar	16.2	SA15 4ND	249621	203809	22/12/2014
Carmarthenshire	4938	Pentre farm	Kinetica Solar	5.5	SA14 6AP	253611	208800	25/09/2014
Carmarthenshire	5271	Land South Of Bryn Cynau Isaf (resubmission)	Green Switch Solutions - Liquidated	5.9	SA31 2LS	242953	217478	31/03/2017
Carmarthenshire	5499	Parc Cynog	Vattenfall	5.0	SA33 4PT	225230	209760	24/03/2016

Local Authority	Ref	Site Name	Operator	MW	Post Code	X	Y	Date Operational
Ceredigion	1827	Llwyn Du Solar Farm	Next Energy Solar Fund	8.0		227279	248567	26/02/2015
Ceredigion	5233	Crugmore Farm	John Laing Environmental Assets Group	6.4	SA43 1RD	220569	246960	25/03/2015
Ceredigion	5256	Aberporth Solar Farm	JBM Solutions	1.5		224624	250331	24/03/2015
Ceredigion	5540	Nanthenfoel Farms	Anesco	5.0	SA48 8AZ	254014	252465	15/03/2017
Conwy	2253	Kinmel 1 CIC	Haymaker Energy	5.0		298420	377733	27/06/2016
Conwy	6015	Kinmel 2 CIC	Haymaker Energy	5.0		298420	377733	27/06/2016
Denbighshire	4738	Rhug Estate	Rhug Estate	1.2	LL21 0EH	303123	344332	15/03/2016
Flintshire	2078	Toyota Motor Manufacturing Uk - Deeside	Toyota Motor Manufacturing	3.8	CH5 2TW	331682	370582	26/08/2014
Flintshire	2347	Shotwick Solar Farm	Foresight Solar Fund	45.7	CH5 2NN	331844	372029	31/03/2016
Flintshire	7400	Flint Landfill Site Castle Park	Flintshire County Council	2.0	CH6 5XA	324099	373832	10/12/2020
Gwynedd	2110	Parciau Farm Solar Park	Kronos Solar	13.9	LL55 1TS	250255	365482	23/03/2015
Gwynedd	4862	Tyddyn Cae (Nefyn)	Lightsource Renewable Energy	4.9	LL53 6DS	233416	338035	15/12/2015
Gwynedd	5190	Fferm Bryn Bachau	BNRG Renewables	4.4	LL53 6RQ	243136	336998	29/03/2016
Gwynedd	5360	Tyddyn Gwyn (Gelli Gron Farm)	Lightsource Renewable Energy	3.8	LL53 6DQ	241889	340088	30/11/2016
Gwynedd	5389	Land at Morfa Camp	Novus Solar Developments	2.8	LL36 9BH	258062	301195	20/03/2016
Isle of Anglesey	2104	Bodorgan Solar Farm	Anesco	12.6		238717	367342	20/06/2014
Isle of Anglesey	2353	Bryn yr Odyn Solar Farm	New Forest Energy Ltd	15.0		239600	373400	28/02/2015
Merthyr Tydfil	5292	Land At Cwm Bargoed	Kronos Solar/ Vogt Solar	5.0	CF48 4AE	309161	206091	20/01/2016
Monmouthshire	1056	Llancayo Solar Farm	m03 Power	3.9	NP15 1HY	336790	203067	01/07/2011
Monmouthshire	1746	Manor Farm (Monmouthshire)	3C Energy/Conergy	10.5		336338	215519	23/06/2016
Monmouthshire	5006	Land at Lower House Farm	3C Energy	8.1	NP15 1JJ	334772	204371	21/03/2016
Monmouthshire	5053	Rhewl Farm	Renesola	6.0	NP16 6AG	349490	193050	26/06/2016
Monmouthshire	5379	Southbrook Solar Farm	Sunventures (Suncredit UK)	5.0	NP26 5SR	350024	187852	15/05/2016
Monmouthshire	6493	Oak Grove Farm	Monmouthshire County Council	5.7	NP26 5UT	350177	190450	30/03/2017
Neath Port Talbot	1900	Pant-Y-Moch Farm	Canadian Solar	5.0	SA14 2UT	277876	190467	06/01/2016
Neath Port Talbot	2215	Maesgwyn solar farm	Walters Group	7.5		288221	208706	15/02/2017
Neath Port Talbot	2286	Hendre Fawr Farm	INRG Solar	11.6	CF44 9RJ	290227	205890	06/03/2015
Neath Port Talbot	2381	Baglan Bay Solar Farm - Phase 1	St. Modwen Developments	5.0		273414	191650	30/03/2014
Neath Port Talbot	6035	Caergarw Farm	Suncredit UK (Sunventures 7)	3.8	CF33 6PT	282219	183728	20/03/2017
Newport	1577	Clearwell Farm - solar	Heritage Energy	2.0		324580	185321	15/12/2015

Local Authority	Ref	Site Name	Operator	MW	Post Code	X	Y	Date Operational
Newport	1580	Langstone Court Road Solar Farm	Private Developer	2.5		336926	189507	11/01/2013
Newport	5084	Court Farm (Resubmission)	BE Renewables	8.5	NP18 2EB	339241	189511	30/03/2017
Newport	5531	Land to North West of Lodge Farm (Park Farm)	Lightsource Renewable Energy	4.0	NP18 3BX	331406	191683	03/03/2017
Newport	5866	Newport (Began Road)	Eco Energy World	4.9	CF3 6XS	323807	184116	14/02/2016
Newport	6411	Llanwern	Gwent Farmers' Community Solar Partnership	49.9	NP19 4QZ	337488	185100	
Pembrokeshire	1055	Rhosygilwen Solar Farm	Private Developer	1.0	SA43 2TW	220298	240670	09/07/2011
Pembrokeshire	1244	West Farm (Solar)	Vogt Solar	7.7	SA72 4UN	199608	203981	28/03/2013
Pembrokeshire	1388	Jordanston Solar Farm	AEE Renewables	5.0	SA70 8NQ	206785	201103	28/03/2013
Pembrokeshire	1598	Rudbaxton Solar Park	Rudbaxton Solar Park Limited	10.8		196753	220959	08/03/2014
Pembrokeshire	1623	AMBLESTON SOLAR PANELS	Arqiva Ltd	6.0		202885	226177	25/01/2012
Pembrokeshire	1634	Liddeston Ridge Solar Park (Milford Haven)	Milford Haven Port Authority	5.0	SA73 3QD	189837	206570	31/03/2014
Pembrokeshire	1661	Langton Farm Solar park	Lightsource Renewable Energy	4.4		194473	233813	03/12/2015
Pembrokeshire	1765	Fenton Home Farm	Sunsave	31.3	SA62 4PY	198922	217459	12/09/2014
Pembrokeshire	1774	Oak Cottage	Anesco	4.9	SA62 4PR	202911	217724	21/08/2015
Pembrokeshire	2074	Tiers Cross Solar Farm	Good Energy Generation	24.0	SA73 3TN	190200	209976	25/10/2014
Pembrokeshire	2180	Shoals Hook Farm	John Laing Environmental Assets Group	12.1	SA61 2XN	197321	216854	31/03/2015
Pembrokeshire	2325	Golden Hill	John Laing Environmental Assets Group	6.2	SA71 4	199087	202465	31/03/2015
Pembrokeshire	2326	Chapel Hill	Wessex Solar Energy	8.0	SA71 5HY	196092	197842	27/03/2015
Pembrokeshire	2365	Yerbeston Gate Farm	Sunsave 23 Limited/ Vogt solar	6.1	SA68 0NS	207186	209092	25/11/2015
Pembrokeshire	2376	Cuckoo Grove Farm	Foresight	6.1	SA61 2UY	192777	216646	26/03/2015
Pembrokeshire	4830	Crundale / Fenton Home Farm (extension)	Vogt Solar	5.9	SA62 4PY	198289	217945	31/03/2015
Pembrokeshire	5019	Land West of Roberts Wall Far	Navitas Project	2.5	SA70 8NF	210186	200504	23/03/2016
Pembrokeshire	5232	Wogaston Solar Farm	Elgin Energy EsCo	5.3	SA71 5AA	191197	200960	17/03/2015
Pembrokeshire	5257	Hopllass Farm	Kronos Solar	10.0	SA71 5TG	191770	201076	13/03/2015
Pembrokeshire	6108	Popehill Farm	North Tenement Solar Limited	5.0	SA62 3NX	193972	212565	29/03/2017
Rhondda Cynon Taf	2243	Maes Bach Farm	Lightsource Renewable Energy	4.9	CF38 1SL	310571	185789	19/11/2015
Rhondda Cynon Taf	2327	Pen Rhiw Caradog	Lightsource Renewable Energy	4.7		304594	197985	24/02/2017
Rhondda Cynon Taf	5150	Agricultural Land at Trecastle	Suncredit UK/ Vogt solar	4.0	CF72 9LY	301218	181507	15/12/2015
Rhondda Cynon Taf	5560	Berthlwyd Farm	Greencoat Capital	5.0	CF37 1PS	307796	188016	15/02/2017
Swansea	1111	Afon Llan	Wessex Energy	9.0				Under Construction

Local Authority	Ref	Site Name	Operator	MW	Post Code	X	Y	Date Operational
Swansea	1330	Cefn Betingau Farm	Wessex Solar Energy	9.0	SA6 6NX	266050	212400	31/03/2014
Swansea	1953	Abergelli Glas Solar Farm	Foresight	7.7	SA5 7NN	265507	202009	15/03/2015
Swansea	1975	Brynwhilach solar park	Core Pisces / Gower Power Co-op CIC	5.0	SA5 7PE	264728	200461	16/03/2017
Swansea	2334	Gelliwern Isaf Farm	Solar Park Developments	6.0	SA5 7PJ	262382	202019	31/03/2015
Swansea	2354	Rhyd-y-Pandy Solar Farm	Wessex Solar Energy	6.0	SA6 6NX	266057	201531	06/03/2015
Swansea	4896	Cockett Valley	Renewable Developments Wales	4.0	SA5 4RQ	260794	195054	29/03/2017
Swansea	5398	Killan Farm Solar Array Extens	Y Felin Ddwr Charitable Trust	1.0	SA2 7US	258483	193944	20/05/2017
Torfaen	5524	Cwrt Henllys Farm	Lightsource Renewable Energy	5.0	NP44 7AS	325372	191949	29/12/2016
Torfaen	5683	Mamhilad Solar Farm	Active Renewables	5.0	NP4 0HD	331456	202012	12/02/2020
Vale of Glamorgan	1521	Land At Court Farm	Sybac Solar International GmbH	2.2	CF35 5DD	294767	178755	16/03/2016
Vale of Glamorgan	1823	Sutton Mawr Farm	Lightsource Renewable Energy	7.5	CF62 3AA	307823	169675	04/03/2014
Vale of Glamorgan	1862	Morfa Farm	Lightsource Renewable Energy	2.0	CF61 2YT	295957	170244	19/12/2016
Vale of Glamorgan	1895	Garn Solar Farm	Equitix	7.4	CF71 7DP	303612	173658	12/05/2014
Vale of Glamorgan	2093	Whitton Mawr	Cenin Renewables	6.0	CF62 3AB	308077	172202	15/05/2017
Vale of Glamorgan	2096	Woden Park	Caerau Solar IQ	5.0		313742	175059	26/03/2014
Vale of Glamorgan	2137	Treguff Farm - resubmission	Lightsource Renewable Energy	4.4	CF71 7LT	302265	171141	11/02/2015
Vale of Glamorgan	2338	Weycock Road	Elgin Energy EsCo	7.0	CF62 3AA	309173	169565	02/03/2016
Vale of Glamorgan	2359	West Hall Solar Farm	INRG Solar	7.0		302351	167146	31/03/2014
Vale of Glamorgan	4940	Llancadle Farm	Llancadle Solar Farm Ltd	5.0	CF62 3AQ	303679	168416	15/12/2015
Vale of Glamorgan	5093	Port of Barry (Resubmission)	Associated British Ports (ABP)	4.5	CF63 3RA	312836	167102	18/08/2015
Vale of Glamorgan	5104	Home Farm	Cenin Renewables	3.0	CF5 6EP	310310	175854	15/04/2017
Vale of Glamorgan	5289	Biglis Farm	Conergy West Sussex	5.0	CF63 1BL	313916	170097	31/03/2016
Vale of Glamorgan	5477	Cwm Derwyn Farm	Kronos Solar	5.0	CF62 3AA	308691	169396	17/03/2017
Vale of Glamorgan	5548	Corntown Farm	SBC Renewables	3.4	CF35 5BB	293814	176736	15/03/2017
Vale of Glamorgan	6369	Rosedew Farm	INRG	5.0	CF61 1PZ	297779	167534	29/03/2016
Wrexham	1520	Bronwylfa Reservoir	Wrexham County Borough Council	3.0		329049	348801	15/06/2015
Wrexham	2079	Trench Farm	Lightsource Renewable Energy	7.2		338419	339068	30/03/2015
Wrexham	2222	Five Fords	Dwr Cymru	2.5				Operational
Wrexham	5026	Land Opposite Tyn Y Pistyll	Lightsource Renewable Energy	5.0	LL14 1TU	328238	343877	22/12/2015
Wrexham	5147	Knolton Farmhouse Cheese Solar Farm	Pegasus Group	1.0	LL13 0LG	335887	340585	01/03/2016

Local Authority	Ref	Site Name	Operator	MW	Post Code	X	Y	Date Operational
Wrexham	5226	Land NW Of Pickhill Bridge Farm	NextEnergy Solar Fund	3.6	LL13 0UA	338023	347831	24/03/2017
Wrexham	5376	Penycae Solar Farm	SBC Renewables	5.0	LL14 1	328970	344020	28/03/2016
Wrexham	6172	Williams Farm	Solar Ventures	5.0	LL13 0UW	338309	348363	31/03/2016
Wales				820.1				

2.2 Quality of agricultural land in use per site

Table 2.2: Quality of agricultural land in use for solar PV sites in Wales - per site

Site	Grade 1		Grade 2		S'rade 3a		S'grade 3b		Grade 4		Grade 5		Non-agri		Urban		Total	BMV	
	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ²	Area ¹	%
Blaenau Gwent 2176 Hafod-Y-Dafal	0.0	0	0.0	0	0.0	0	0.0	0	11.7	100	0.0	0	0.0	3	0.0	0	11.7	0.0	0
Bridgend 1787 Seaview Farm	0.0	0	0.2	6	0.0	0	3.4	92	0.0	0	0.0	0	0.0	0	0.0	0	3.6	0.2	6
Bridgend 1982 Court Colman	0.0	0	0.0	0	15.3	58	10.7	41	0.0	0	0.3	1	0.0	4	0.0	0	26.2	15.3	58
Bridgend 6520 Stormy Down	0.0	0	0.0	0	2.3	34	0.1	2	0.0	0	0.0	0	4.4	0	0.0	0	6.9	2.3	34
Caerphilly 1985 Cwmcaesingrug Farm	0.0	0	0.0	0	0.0	0	0.0	0	16.1	100	0.0	0	0.0	1	0.0	0	16.1	0.0	0
Caerphilly 2206 Penrhiwarwydd Farm	0.0	0	0.0	0	0.0	0	0.0	0	19.7	100	0.0	0	0.0	0	0.0	0	19.7	0.0	0
Caerphilly 2370 Hendai Farm	0.0	0	0.0	0	0.0	0	0.0	0	21.3	100	0.0	0	0.0	0	0.0	0	21.3	0.0	0
Caerphilly 4734 Darran Farm	0.0	0	0.0	0	0.0	0	0.0	0	9.6	100	0.0	0	0.0	0	0.0	0	9.6	0.0	0
Caerphilly 5381 Upper Pant-Ysgawen Farm	0.0	0	0.0	0	0.0	0	0.0	0	7.8	100	0.0	0	0.0	0	0.0	0	7.8	0.0	0
Caerphilly 5437 Manmoel Road	0.0	0	0.0	0	0.0	0	0.0	0	10.2	100	0.0	0	0.0	0	0.0	0	10.2	0.0	0
Cardiff 6660 Lamby Way	0.0	0	0.0	0	14.0	94	0.0	0	0.0	0	0.0	0	0.9	0	0.0	0	14.9	14.0	94
Carmarthenshire 1161 Ffos Las Racecourse	0.0	0	0.0	0	0.0	0	4.4	35	8.1	65	0.0	0	0.0	0	0.0	0	12.5	0.0	0
Carmarthenshire 1356 Pont Andrew	0.0	0	0.0	0	0.0	0	2.3	63	0.0	0	0.2	6	1.1	161	0.0	0	3.6	0.0	0
Carmarthenshire 1503 Redcourt Farm	0.0	0	0.0	0	0.7	12	5.2	88	0.0	0	0.0	0	0.0	0	0.0	0	5.9	0.7	12
Carmarthenshire 1719 Caeremlyn	0.0	0	0.0	0	2.5	9	24.3	90	0.0	0	0.0	0	0.2	0	0.0	0	27.0	2.5	9
Carmarthenshire 1781 Pen Y Cae	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	11.6	97	0.3	821	0.0	0	11.9	0.0	0
Carmarthenshire 1951 Clawdd Ddu	0.0	0	0.0	0	0.0	0	4.4	17	16.3	64	4.6	18	0.1	72	0.0	0	25.4	0.0	0
Carmarthenshire 2355 Saron Road	0.0	0	0.0	0	0.0	0	8.3	60	0.0	0	4.7	34	0.6	242	0.4	3	13.9	0.0	0
Carmarthenshire 2363 Brynteg Farm	0.0	0	0.0	0	0.0	0	12.8	53	0.0	0	11.3	47	0.1	193	0.0	0	24.2	0.0	0
Carmarthenshire 4938 Pentre Farm	0.0	0	0.0	0	0.0	0	0.0	0	11.0	100	0.0	0	0.0	0	0.0	0	11.0	0.0	0
Carmarthenshire 5271 Bryn Cynau Isaf	0.0	0	0.0	0	0.0	0	7.2	100	0.0	0	0.0	0	0.0	0	0.0	0	7.2	0.0	0
Carmarthenshire 5499 Parc Cynog	0.0	0	0.0	0	0.5	5	7.9	94	0.1	1	0.0	0	0.0	0	0.0	0	8.4	0.5	5
Ceredigion 1827 Llwyn Du	0.0	0	0.0	0	11.4	72	4.5	28	0.0	0	0.0	0	0.0	0	0.0	0	15.8	11.4	72
Ceredigion 5233 Crugmore Farm	0.0	0	0.2	2	0.0	0	0.1	1	0.0	0	11.4	97	0.0	832	0.0	0	11.7	0.2	2

Site	Grade 1		Grade 2		S'rade 3a		S'grade 3b		Grade 4		Grade 5		Non-agri		Urban		Total	BMV	
	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ²	Area ¹	%
Ceredigion 5256 Aberporth	0.0	0	0.0	0	0.0	0	2.7	100	0.0	0	0.0	0	0.0	0	0.0	0	2.7	0.0	0
Ceredigion 5540 Nanthenfoel Farms	0.0	0	0.0	0	0.0	0	7.8	100	0.0	0	0.0	0	0.0	0	0.0	0	7.8	0.0	0
Conwy 2253 Kinmel 1	0.0	0	0.0	0	0.0	0	5.4	100	0.0	0	0.0	0	0.0	0	0.0	0	5.4	0.0	0
Conwy 6015 Kinmel 2	0.0	0	0.0	0	0.0	0	12.0	100	0.0	0	0.0	0	0.0	0	0.0	0	12.0	0.0	0
Denbighshire 4738 Rhug Estate	0.0	0	0.0	0	0.0	0	1.5	82	0.3	18	0.0	0	0.0	0	0.0	0	1.9	0.0	0
Flintshire 2078 Toyota	0.0	0	7.2	98	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.2	2	7.4	7.2	98
Flintshire 2347 Shotwick	0.0	0	79.2	100	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	79.2	79.2	100
Flintshire 7400 Flint Landfill	0.0	0	0.9	31	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.1	69	3.0	0.9	31
Gwynedd 2110 Parciau Farm	0.0	0	14.5	58	0.0	0	10.4	42	0.0	0	0.0	0	0.0	0	0.0	0	24.8	14.5	58
Gwynedd 4862 Tyddyn Cae	0.0	0	0.0	0	0.0	0	8.5	83	1.0	10	0.0	0	0.7	0	0.0	0	10.1	0.0	0
Gwynedd 5190 Fferm Bryn Bachau	0.0	0	0.0	0	0.0	0	9.9	100	0.0	0	0.0	0	0.0	0	0.0	0	9.9	0.0	0
Gwynedd 5360 Tyddyn Gwyn	0.0	0	0.0	0	0.0	0	5.6	100	0.0	0	0.0	0	0.0	0	0.0	0	5.6	0.0	0
Gwynedd 5389 Morfa Camp	0.0	0	0.0	0	5.8	100	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	5.8	5.8	100
Isle of Anglesey 2104 Bodorgan	0.0	0	1.9	7	0.0	0	24.8	93	0.0	0	0.0	0	0.0	0	0.0	0	26.7	1.9	7
Isle of Anglesey 2353 Bryn Yr Odyn	0.0	0	10.4	38	0.0	0	16.8	62	0.0	0	0.0	0	0.0	0	0.0	0	27.2	10.4	38
Merthyr Tydfil 5292 Cwm Bargoed	0.0	0	0.0	0	0.0	0	0.0	0	10.6	98	0.2	2	0.0	16	0.0	0	10.8	0.0	0
Monmouthshire 1056 Llancayo	0.0	0	13.0	100	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	13.0	13.0	100
Monmouthshire 1746 Manor Farm	0.0	0	19.7	92	0.0	0	1.8	8	0.0	0	0.0	0	0.0	0	0.0	0	21.4	19.7	92
Monmouthshire 5006 Lower House Farm	0.0	0	10.9	100	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	10.9	10.9	100
Monmouthshire 5053 Rhewl Farm	0.0	0	3.4	31	1.3	12	6.2	56	0.0	0	0.0	0	0.1	0	0.0	0	11.0	4.7	43
Monmouthshire 5379 Southbrook	0.0	0	5.5	56	3.5	36	0.5	5	0.0	0	0.2	3	0.0	26	0.0	0	9.7	9.0	93
Monmouthshire 6493 Oak Grove Farm	0.0	0	10.7	88	0.0	0	1.5	12	0.0	0	0.0	0	0.0	0	0.0	0	12.2	10.7	88
Neath Port Talbot 1900 Pant-Y-Moch Farm	0.0	0	0.0	0	0.0	0	0.0	0	20.2	99	0.0	0	0.2	0	0.0	0	20.4	0.0	0
Neath Port Talbot 2215 Maesgwyn	0.0	0	0.0	0	0.0	0	0.0	0	2.5	36	4.4	63	0.1	913	0.0	0	6.9	0.0	0
Neath Port Talbot 2286 Hendre Fawr Farm	0.0	0	0.0	0	0.0	0	0.0	0	7.4	35	13.7	65	0.0	306	0.0	0	21.1	0.0	0
Neath Port Talbot 2381 Baglan Bay	0.0	0	0.0	0	0.0	0	0.5	5	0.0	0	10.4	95	0.0	871	0.0	0	10.9	0.0	0
Neath Port Talbot 6035 Caergarw Farm	0.0	0	0.6	7	0.0	0	2.8	30	5.9	63	0.0	0	0.0	0	0.0	0	9.3	0.6	7
Newport 1577 Clearwell Farm	0.0	0	3.3	91	0.0	0	0.3	9	0.0	0	0.0	0	0.0	0	0.0	0	3.7	3.3	91
Newport 1580 Langstone Court Road	0.0	0	0.0	0	0.0	0	0.0	0	5.3	95	0.0	0	0.0	0	0.3	5	5.5	0.0	0

Site	Grade 1		Grade 2		S'rade 3a		S'grade 3b		Grade 4		Grade 5		Non-agri		Urban		Total	BMV	
	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ²	Area ¹	%
Newport 5084 Court Farm	0.0	0	5.0	54	1.0	11	3.3	36	0.0	0	0.0	0	0.0	0	0.0	0	9.3	6.0	64
Newport 5531 Lodge Farm	0.0	0	0.0	0	1.3	20	4.4	67	0.6	10	0.0	0	0.2	0	0.0	0	6.6	1.3	20
Newport 5866 Began Road	0.0	1	0.0	0	0.0	0	5.4	99	0.0	0	0.0	0	0.0	0	0.0	0	5.5	0.0	1
Newport 6411 Llanwern	0.0	0	0.0	0	0.0	0	93.5	99	1.1	1	0.0	0	0.0	0	0.0	0	94.7	0.0	0
Pembrokeshire 1055 Rhosygilswen	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3.1	100	0.0	3195	0.0	0	3.1	0.0	0
Pembrokeshire 1244 West Farm	0.0	0	0.0	0	16.5	98	0.2	1	0.0	0	0.0	0	0.1	0	0.0	0	16.8	16.5	98
Pembrokeshire 1388 Jordanston	0.0	0	5.6	57	4.2	43	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9.7	9.7	100
Pembrokeshire 1598 Rudbaxton	0.0	0	0.0	0	0.0	0	20.2	99	0.0	0	0.0	0	0.3	0	0.0	0	20.5	0.0	0
Pembrokeshire 1623 Ambleston	0.0	0	0.0	0	0.0	0	0.2	100	0.0	0	0.0	0	0.0	0	0.0	0	0.2	0.0	0
Pembrokeshire 1634 Liddeston Ridge	0.0	0	9.5	81	0.0	0	1.8	16	0.2	2	0.0	0	0.1	0	0.0	0	11.6	9.5	82
Pembrokeshire 1661 Langton Farm	0.0	0	0.0	0	6.5	100	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	6.5	6.5	100
Pembrokeshire 1765 Fenton Home Farm	0.0	0	0.0	0	0.0	0	50.8	100	0.0	0	0.0	0	0.2	0	0.0	0	51.0	0.0	0
Pembrokeshire 1774 Oak Cottage	0.0	0	0.0	0	0.0	0	8.9	100	0.0	0	0.0	0	0.0	0	0.0	0	8.9	0.0	0
Pembrokeshire 2074 Tiers Cross Farm	0.0	0	47.3	81	0.6	1	10.7	18	0.0	0	0.0	0	0.1	0	0.0	0	58.6	47.9	82
Pembrokeshire 2180 Shoals Hook Farm	0.0	0	0.0	0	8.1	34	15.9	66	0.0	0	0.0	0	0.0	0	0.0	0	24.0	8.1	34
Pembrokeshire 2325 Golden Hill	0.0	0	0.0	0	9.1	85	1.6	15	0.0	0	0.0	0	0.0	0	0.0	0	10.7	9.1	85
Pembrokeshire 2326 Chapel Hill	0.0	0	2.9	19	0.0	0	12.4	81	0.0	0	0.0	0	0.1	0	0.0	0	15.4	2.9	19
Pembrokeshire 2365 Yerboston Gate Farm	0.0	0	0.0	0	3.9	47	3.9	48	0.0	0	0.0	0	0.4	0	0.0	0	8.2	3.9	47
Pembrokeshire 2376 Cuckoo Grove Farm	0.0	0	0.0	0	0.0	0	11.6	100	0.0	0	0.0	0	0.0	0	0.0	0	11.6	0.0	0
Pembrokeshire 4830 Crundale Fenton H' F'	0.0	0	0.0	0	0.0	0	10.5	100	0.0	0	0.0	0	0.0	0	0.0	0	10.5	0.0	0
Pembrokeshire 5019 L' W' of Roberts W' F'	0.0	0	0.0	0	3.1	91	0.3	9	0.0	0	0.0	0	0.0	0	0.0	0	3.4	3.1	91
Pembrokeshire 5232 Wogaston Farm	0.0	0	3.2	33	6.4	67	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9.6	9.6	100
Pembrokeshire 5257 Hoplass Farm	0.0	0	10.2	54	0.0	0	8.7	46	0.0	0	0.0	0	0.0	0	0.0	0	18.9	10.2	54
Pembrokeshire 6108 Popehill Farm	0.0	0	0.0	0	6.8	67	3.4	33	0.0	0	0.0	0	0.0	0	0.0	0	10.2	6.8	67
Rhondda Cynon Taf 2243 Maes Bach Farm	0.0	0	0.0	0	0.0	0	8.6	54	0.0	0	7.3	46	0.0	290	0.0	0	15.9	0.0	0
Rhondda Cynon Taf 2327 Pen Rhiw Caradog	0.0	0	0.0	0	0.0	0	0.0	0	9.7	100	0.0	0	0.0	0	0.0	0	9.7	0.0	0
Rhondda Cynon Taf 5150 Agri' Land at Tre'	0.0	0	0.0	0	2.5	28	6.4	71	0.0	0	0.0	0	0.1	0	0.0	0	9.0	2.5	28
Rhondda Cynon Taf 5560 Berthlwyd Farm	0.0	0	0.0	0	0.0	0	0.0	0	8.9	94	0.5	6	0.1	59	0.0	0	9.5	0.0	0
Swansea 1111 Afon Llan	0.0	0	0.0	0	0.0	0	11.7	95	0.6	5	0.0	0	0.0	0	0.0	0	12.3	0.0	0

Site	Grade 1		Grade 2		S'rade 3a		S'grade 3b		Grade 4		Grade 5		Non-agri		Urban		Total	BMV	
	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ²	Area ¹	%
Swansea 1330 Cefn Betingau Farm	0.0	0	0.0	0	0.0	0	12.0	97	0.0	0	0.4	3	0.0	24	0.0	0	12.3	0.0	0
Swansea 1953 Abergelli Glas Farm	0.0	0	0.0	0	0.0	0	9.5	63	0.0	0	5.6	37	0.0	247	0.0	0	15.1	0.0	0
Swansea 1975 Brynwhilach	0.0	0	0.0	0	0.0	0	7.8	70	0.0	0	3.4	30	0.0	272	0.0	0	11.2	0.0	0
Swansea 2334 Gelliwern Farm	0.0	0	0.0	0	11.4	64	4.8	27	0.0	0	1.5	8	0.1	46	0.0	0	17.8	11.4	64
Swansea 2354 Rhyd-y-Pandy Farm	0.0	0	0.0	0	0.0	0	9.3	53	0.0	0	8.3	47	0.0	269	0.0	0	17.5	0.0	0
Swansea 4896 Cockett Valley	0.0	0	0.0	0	3.7	49	2.7	35	0.6	7	0.7	9	0.0	119	0.0	0	7.7	3.7	49
Swansea 5398 Killan Farm	0.0	0	0.0	0	0.0	0	0.7	45	0.0	0	0.0	0	0.9	0	0.0	0	1.6	0.0	0
Torfaen 5524 Cwrt Henllys Farm	0.0	0	0.0	0	0.0	0	10.0	99	0.1	1	0.0	0	0.0	0	0.0	0	10.1	0.0	0
Torfaen 5683 Mamhilad Farm	0.0	0	0.0	0	3.8	61	2.4	38	0.0	0	0.0	0	0.0	0	0.0	0	6.2	3.8	61
Vale of Glamorgan 1521 Land at Court Farm	0.0	0	0.0	0	3.8	76	0.4	7	0.8	16	0.0	0	0.0	0	0.0	0	5.0	3.8	76
Vale of Glamorgan 1823 Sutton Mawr Farm	0.0	0	0.0	0	0.0	0	0.0	0	16.9	99	0.0	0	0.1	0	0.0	0	17.0	0.0	0
Vale of Glamorgan 1862 Morfa Farm	0.0	0	0.0	0	0.0	0	3.1	69	1.4	31	0.0	0	0.0	0	0.0	0	4.4	0.0	0
Vale of Glamorgan 1895 Garn Farm	0.0	0	0.0	0	3.3	22	11.7	78	0.0	0	0.0	0	0.0	0	0.0	0	15.0	3.3	22
Vale of Glamorgan 2093 Whitton Mawr	0.0	0	0.0	0	0.0	0	0.0	0	0.2	2	10.8	97	0.2	866	0.0	0	11.2	0.0	0
Vale of Glamorgan 2096 Woden Park	0.0	0	0.0	0	0.0	0	1.7	17	6.4	64	1.1	11	0.8	106	0.0	0	10.0	0.0	0
Vale of Glamorgan 2137 Treguff Farm	0.0	0	0.0	0	0.6	6	0.0	0	9.3	94	0.0	0	0.0	0	0.0	0	9.9	0.6	6
Vale of Glamorgan 2338 Weycock Road	0.0	0	0.0	0	7.2	54	0.0	0	5.9	45	0.0	0	0.2	0	0.0	0	13.3	7.2	54
Vale of Glamorgan 2359 West Hall Farm	0.0	0	1.0	7	0.0	0	13.0	93	0.0	0	0.0	0	0.0	0	0.0	0	13.9	1.0	7
Vale of Glamorgan 4940 Llancadle Farm	0.0	0	0.2	2	0.0	0	7.2	97	0.0	1	0.0	0	0.0	0	0.0	0	7.4	0.2	2
Vale of Glamorgan 5093 Port of Barry	0.0	0	0.0	0	0.0	0	0.0	0	5.2	68	0.0	0	2.3	0	0.1	1	7.6	0.0	0
Vale of Glamorgan 5104 Home Farm	0.0	0	1.7	25	0.0	0	5.1	75	0.0	0	0.0	0	0.0	0	0.0	0	6.8	1.7	25
Vale of Glamorgan 5289 Biglis Farm	0.0	0	0.0	0	0.0	0	8.9	93	0.0	0	0.7	7	0.0	74	0.0	0	9.6	0.0	0
Vale of Glamorgan 5477 Cwm Derwyn Farm	0.0	0	0.0	0	4.3	58	2.4	32	0.7	9	0.0	0	0.0	0	0.0	0	7.4	4.3	58
Vale of Glamorgan 5548 Corntown Farm	0.0	0	0.0	0	0.7	14	3.0	64	1.0	22	0.0	0	0.0	0	0.0	0	4.7	0.7	14
Vale of Glamorgan 6369 Rosedew Farm	0.0	0	0.0	0	0.0	0	7.2	100	0.0	0	0.0	0	0.0	0	0.0	0	7.2	0.0	0
Wrexham 1520 Bronwylfa Reservoir	0.0	0	0.0	0	7.1	100	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	7.1	7.1	100
Wrexham 2079 Trench Farm	0.0	0	0.0	0	2.1	15	11.4	84	0.0	0	0.0	0	0.0	0	0.0	0	13.5	2.1	15
Wrexham 2222 Five Fords	0.0	0	0.0	0	3.9	69	1.7	30	0.0	0	0.0	0	0.0	0	0.0	0	5.6	3.9	69
Wrexham 5026 Land opposite Tyn Y Pistyll	0.0	0	0.0	0	0.0	0	10.1	100	0.0	0	0.0	0	0.0	0	0.0	0	10.1	0.0	0

Site	Grade 1		Grade 2		S'rade 3a		S'grade 3b		Grade 4		Grade 5		Non-agri		Urban		Total	BMV	
	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ²	Area ¹	%
Wrexham 5147 Knolton Farmhouse	0.0	0	0.0	0	0.0	0	1.9	97	0.0	0	0.0	0	0.1	0	0.0	0	2.0	0.0	0
Wrexham 5226 Land NW of Pickhill Br' F'	0.0	0	0.0	0	6.2	99	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	6.2	6.2	99
Wrexham 5376 Penycae Farm	0.0	0	0.0	0	5.7	59	3.9	41	0.0	0	0.0	0	0.0	0	0.0	0	9.6	5.7	59
Wrexham 6172 Williams Farm	0.0	0	0.0	0	11.5	99	0.0	0	0.0	0	0.0	0	0.1	0	0.0	0	11.6	11.5	99
Wales	0.0	0	268.1	18	202.4	13	660.8	43	254.8	17	116.3	8	15.6	1	3.0	0	1521.1	470.5	31

Notes: BMV = Best and Most Versatile (BMV) agricultural land (as defined in paragraph 3.58 of Planning Policy Wales 11 (2021)), i.e. grade 1, grade 2 and subgrade 3a. Area¹ = ha in use per ALC grade per site. Area² = total ha in use per site. % = ha per ALC grade as a percentage of total ha, i.e. Area¹ / Area² * 100.

Sources: BEIS Renewable Energy Planning Database. Google satellite imagery. Bing satellite imagery. Welsh Government Predictive ALC 2 Map.

2.3 Quality of agricultural land in use per Local Authority District

Table 2.3: Quality of agricultural land in use for solar PV sites in Wales - per Local Authority District

Local Authority	Grade 1		Grade 2		S'grade 3a		S'grade 3b		Grade 4		Grade 5		Non-agri		Urban		Total	BMV	
	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ¹	%	Area ²	Area ¹	%
Blaenau Gwent	0.0	0	0.0	0	0.0	0	0.0	0	11.7	100	0.0	0	0.0	0	0.0	0	11.7	0.0	0
Bridgend	0.0	0	0.2	1	17.6	48	14.2	39	0.0	0	0.3	1	4.5	12	0.0	0	36.8	17.8	48
Caerphilly	0.0	0	0.0	0	0.0	0	0.0	0	84.7	100	0.0	0	0.0	0	0.0	0	84.7	0.0	0
Cardiff	0.0	0	0.0	0	14.0	94	0.0	0	0.0	0	0.0	0	0.9	6	0.0	0	14.9	14.0	94
Carmarthenshire	0.0	0	0.0	0	3.7	2	76.7	51	35.4	23	32.3	21	2.3	2	0.4	0	150.9	3.7	2
Ceredigion	0.0	0	0.2	0	11.4	30	15.0	40	0.0	0	11.4	30	0.1	0	0.0	0	38.1	11.5	30
Conwy	0.0	0	0.0	0	0.0	0	17.4	100	0.0	0	0.0	0	0.0	0	0.0	0	17.4	0.0	0
Denbighshire	0.0	0	0.0	0	0.0	0	1.5	82	0.3	18	0.0	0	0.0	0	0.0	0	1.9	0.0	0
Flintshire	0.0	0	87.4	97	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.3	3	89.6	87.4	97
Gwynedd	0.0	0	14.5	26	5.8	10	34.3	61	1.0	2	0.0	0	0.7	1	0.0	0	56.3	20.2	36
Isle of Anglesey	0.0	0	12.4	23	0.0	0	41.6	77	0.0	0	0.0	0	0.0	0	0.0	0	54.0	12.4	23
Merthyr Tydfil	0.0	0	0.0	0	0.0	0	0.0	0	10.6	98	0.2	2	0.0	0	0.0	0	10.8	0.0	0
Monmouthshire	0.0	0	63.1	81	4.9	6	9.9	13	0.0	0	0.2	0	0.1	0	0.0	0	78.2	68.0	87
Neath Port Talbot	0.0	0	0.6	1	0.0	0	3.3	5	36.0	52	28.5	41	0.3	0	0.0	0	68.7	0.6	1
Newport	0.0	0	8.3	7	2.3	2	107.0	85	7.0	6	0.0	0	0.2	0	0.3	0	125.2	10.7	9
Pembrokeshire	0.0	0	78.5	25	65.3	21	161.2	52	0.2	0	3.1	1	1.2	0	0.0	0	309.6	143.8	46
Rhondda Cynon Taf	0.0	0	0.0	0	2.5	6	15.0	34	18.7	42	7.8	18	0.2	0	0.0	0	44.2	2.5	6
Swansea	0.0	0	0.0	0	15.1	16	58.4	61	1.1	1	19.8	21	1.1	1	0.0	0	95.5	15.1	16
Torfaen	0.0	0	0.0	0	3.8	23	12.4	76	0.1	1	0.0	0	0.0	0	0.0	0	16.4	3.8	23
Vale of Glamorgan	0.0	0	2.8	2	19.7	13	63.7	42	47.9	32	12.5	8	3.8	2	0.1	0	150.6	22.6	15
Wrexham	0.0	0	0.0	0	36.4	55	29.1	44	0.0	0	0.0	0	0.2	0	0.0	0	65.7	36.4	55
Wales	0.0	0	268.1	18	202.4	13	660.8	43	254.8	17	116.3	8	15.6	1	3.0	0	1521.1	470.5	31

Local Authority	Grade 1 Area ¹ %	Grade 2 Area ¹ %	S'grade 3a Area ¹ %	S'grade 3b Area ¹ %	Grade 4 Area ¹ %	Grade 5 Area ¹ %	Non-agri Area ¹ %	Urban Area ¹ %	Total Area ²	BMV Area ¹ %
<p>Notes: BMV = Best and Most Versatile (BMV) agricultural land (as defined in paragraph 3.58 of Planning Policy Wales 11 (2021), i.e. grade 1, grade 2 and subgrade 3a. Area¹ = ha in use per ALC grade per Local Authority District. Area² = total ha in use per Local Authority District. % = ha per ALC grade as a percentage of total ha, i.e. Area¹ / Area² * 100.</p> <p>Sources: BEIS Renewable Energy Planning Database. Google satellite imagery. Bing satellite imagery. Welsh Government Predictive ALC 2 Map.</p>										

2.4 Quality of agricultural land in use as % of supply

Table 2.4: Quality of agricultural land in use for solar PV sites in Wales - as % of total supply

Local Authority	Grade 1			Grade 2			Subgrade 3a			Subgrade 3b			Grade 4			Grade 5			BMV		
	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%
Blaenau Gwent	0	0.0		0	0.0		0	0.0		57	0.0	0.0	2,838	11.7	0.4	4,687	0.0	0.0	0	0.0	
Bridgend	4	0.0	0.0	572	0.2	0.0	1,429	17.6	1.2	4,337	14.2	0.3	5,173	0.0	0.0	5,546	0.3	0.0	2,006	17.8	0.9
Caerphilly	15	0.0	0.0	358	0.0	0.0	436	0.0	0.0	3,139	0.0	0.0	9,686	84.7	0.9	4,176	0.0	0.0	809	0.0	0.0
Cardiff	156	0.0	0.0	728	0.0	0.0	1,156	14.0	1.2	1,834	0.0	0.0	938	0.0	0.0	203	0.0	0.0	2,040	14.0	0.7
Carmarthenshire	9	0.0	0.0	520	0.0	0.0	17,266	3.7	0.0	78,420	76.7	0.1	67,820	35.4	0.1	29,638	32.3	0.1	17,795	3.7	0.0
Ceredigion	1	0.0	0.0	1,537	0.2	0.0	12,914	11.4	0.1	63,234	15.0	0.0	30,406	0.0	0.0	41,609	11.4	0.0	14,453	11.5	0.1
Conwy	90	0.0	0.0	730	0.0	0.0	9,770	0.0	0.0	18,583	17.4	0.1	24,781	0.0	0.0	40,200	0.0	0.0	10,590	0.0	0.0
Denbighshire	682	0.0	0.0	6,787	0.0	0.0	13,135	0.0	0.0	21,650	1.5	0.0	13,886	0.3	0.0	12,431	0.0	0.0	20,604	0.0	0.0
Flintshire	40	0.0	0.0	9,680	87.4	0.9	7,849	0.0	0.0	12,260	0.0	0.0	3,204	0.0	0.0	930	0.0	0.0	17,569	87.4	0.5
Gwynedd	0	0.0	0.0	5,950	14.5	0.2	14,977	5.8	0.0	31,603	34.3	0.1	44,269	1.0	0.0	113,641	0.0	0.0	20,928	20.2	0.1
Isle of Anglesey	0	0.0		18,476	12.4	0.1	16,162	0.0	0.0	22,301	41.6	0.2	2,239	0.0	0.0	5,876	0.0	0.0	34,637	12.4	0.0
Merthyr Tydfil	0	0.0		0	0.0		0	0.0		267	0.0	0.0	3,427	10.6	0.3	4,068	0.2	0.0	0	0.0	
Monmouthshire	201	0.0	0.0	27,323	63.1	0.2	8,599	4.9	0.1	20,005	9.9	0.0	8,700	0.0	0.0	3,787	0.2	0.0	36,123	68.0	0.2
Neath Port Talbot	0	0.0		474	0.6	0.1	239	0.0	0.0	2,967	3.3	0.1	9,101	36.0	0.4	9,856	28.5	0.3	713	0.6	0.1
Newport	155	0.0	0.0	1,928	8.3	0.4	1,178	2.3	0.2	4,269	107.0	2.5	4,725	7.0	0.1	53	0.0	0.0	3,261	10.7	0.3
Pembrokeshire	67	0.0	0.0	20,147	78.5	0.4	39,613	65.3	0.2	55,474	161.2	0.3	14,813	0.2	0.0	11,972	3.1	0.0	59,826	143.8	0.2
Powys	415	0.0	0.0	17,506	0.0	0.0	28,083	0.0	0.0	110,929	0.0	0.0	138,820	0.0	0.0	142,697	0.0	0.0	46,004	0.0	0.0
Rhondda Cynon Taf	0	0.0		140	0.0	0.0	831	2.5	0.3	2,986	15.0	0.5	8,492	18.7	0.2	13,125	7.8	0.1	971	2.5	0.3
Swansea	0	0.0		4,418	0.0	0.0	1,711	15.1	0.9	8,725	58.4	0.7	4,428	1.1	0.0	7,150	19.8	0.3	6,129	15.1	0.2
Torfaen	42	0.0	0.0	190	0.0	0.0	1,141	3.8	0.3	1,054	12.4	1.2	2,608	0.1	0.0	3,013	0.0	0.0	1,374	3.8	0.3
Vale of Glamorgan	1	0.0	0.0	2,602	2.8	0.1	4,824	19.7	0.4	12,174	63.7	0.5	6,034	47.9	0.8	762	12.5	1.6	7,428	22.6	0.3
Wrexham	2,114	0.0	0.0	5,825	0.0	0.0	10,448	36.4	0.3	11,785	29.1	0.2	5,981	0.0	0.0	5,665	0.0	0.0	18,387	36.4	0.2
Wales	3,993	0.0	0.0	125,892	268.1	0.2	191,760	202.4	0.1	488,053	660.8	0.1	412,371	254.8	0.1	461,084	116.3	0.0	321,645	470.5	0.1

Local Authority	Grade 1			Grade 2			Subgrade 3a			Subgrade 3b			Grade 4			Grade 5			BMV		
	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%	Supply	Used	%

Notes: BMV = Best and Most Versatile (BMV) agricultural land, i.e. grade 1, grade 2 and subgrade 3a. Supply = total supply (ha) per ALC grade per Local Authority District. Used = total ha in use per ALC grade per Local Authority District. % = percentage of supply of ALC grade in use for solar PV sites, i.e. $Used / Supply * 100$.

Sources: BEIS Renewable Energy Planning Database. Google satellite imagery. Bing satellite imagery. Welsh Government Predictive ALC 2 Map. Administrative boundaries extracted from Lle.gov.wales OS data © Crown copyright and database right 2022.

2.5 Solar PV site capacity (MW) per Local Authority District

Table 2.5: Built solar PV capacity in Wales

Local Authority	Number of Sites	Total Capacity (MW)
Blaenau Gwent	1	14.0
Bridgend	3	20.5
Caerphilly	6	43.5
Cardiff	1	8.9
Carmarthenshire	11	88.0
Ceredigion	4	20.9
Conwy	2	10.0
Denbighshire	1	1.2
Flintshire	3	51.5
Gwynedd	5	29.8
Isle of Anglesey	2	27.6
Merthyr Tydfil	1	5.0
Monmouthshire	6	39.2
Neath Port Talbot	5	32.9
Newport	6	71.8
Pembrokeshire	20	167.3
Powys	0	0.0
Rhondda Cynon Taf	4	18.6
Swansea	8	47.7
Torfaen	2	10.0
Vale of Glamorgan	16	79.4
Wrexham	8	32.3
Wales	115	820.1

Source: BEIS Renewable Energy Planning Database.

APPENDICES

Appendix 1: Figure 1 – ALC and Built Solar PV Sites in Wales