

ANNEX A: Data Tables

Please note in reference to the following tables:

- All installations reported on are operating installations.
- Number of installations are rounded to the nearest 10.
- Capacity values listed are rounded to the nearest whole number.
- Caveats: All data extracted and presented is correct as of 22/05/2023 and until the next iteration of the report (expected in March 2024).
- Please refer to the data dictionary (Annex *) for the definitions of different ownership categories.

Table 1. Cumulative operating capacity (MW) by ownership category from pre-2010 to 2022														
Ownership category	pre-2010	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Community	23	24	29	33	54	57	73	78	83	85	87	88	98	101
Farm and estate	84	103	117	143	186	227	273	309	333	351	361	367	369	370
Housing Association	15	21	25	37	40	43	49	55	61	70	72	73	76	78
Local Authority	14	18	31	43	63	73	98	119	129	138	144	151	153	157
Local Business	7	12	27	35	44	61	68	72	99	101	109	111	115	117
Public Sector and Charity	20	22	29	30	40	47	51	63	66	67	73	74	78	85
Total	163	200	257	321	428	508	612	696	771	812	846	866	889	908

Table 2. Cumulative operating number of installations by ownership category from pre-2010 to 2022														
Ownership category	pre-2010	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Community	360	360	400	430	450	470	510	530	540	550	560	580	610	660
Farm and estate	200	220	240	290	420	540	620	730	790	830	870	900	910	930
Housing Association	1810	2770	3670	6010	6930	7390	8550	10270	10680	11050	11560	11760	11940	12050
Local Authority	800	910	1570	2260	2960	3720	5350	6960	7950	9080	10050	10370	10950	11340
Local Business	30	60	230	310	400	480	510	540	550	560	600	620	700	780
Public Sector and Charity	210	210	230	250	350	390	420	450	460	470	490	510	520	540
Total	3410	4530	6350	9540	11510	12980	15970	19490	20970	22540	24130	24740	25630	26290

Table 3. Cumulative operating capacity (MW) by technology class from pre-2010 to 2022														
Technology	pre-2010	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Wind	88	105	122	150	202	235	280	293	311	327	329	329	335	338
Biomass	36	44	73	83	124	150	172	213	234	244	263	271	275	277
Heat Pump	12	18	24	35	40	43	51	58	59	64	71	79	84	90
Solar PV	1	1	3	8	13	19	35	47	53	59	63	66	71	80
Biogas	5	8	8	8	9	15	20	25	51	55	57	57	56	56
Hydroelectric	7	10	12	17	20	25	31	36	40	40	40	41	44	45
Solar Thermal	7	8	10	13	15	16	16	17	17	17	17	17	17	17
Waste	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total	163	200	257	321	428	508	612	696	771	812	846	866	889	908

Table 4. Cumulative operating number of installations by technology class from pre-2010 to 2022														
Technology	pre-2010	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Wind	310	330	380	420	520	600	670	690	710	720	730	730	740	740
Biomass	220	270	390	450	650	800	890	1000	1090	1130	1180	1210	1230	1230
Heat Pump	1280	1990	2840	4340	4780	5150	6070	6820	7010	7560	8050	8340	8570	8870
Solar PV	160	180	500	1600	2370	3000	4650	7200	8380	9270	10270	10590	11240	11570
Biogas	<10	10	10	10	10	20	30	40	40	40	50	50	50	50
Hydroelectric	40	50	60	70	90	120	150	170	170	170	170	180	180	190
Solar Thermal	1390	1710	2160	2640	3070	3300	3520	3570	3570	3640	3660	3630	3630	3640
Waste	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total	3410	4530	6350	9540	11510	12980	15970	19490	20970	22540	24130	24740	25630	26290

Table 5. Cumulative operating capacity (MW) and number of installations by local authority for 2022		
2022 Local Authorities	Capacity (MW)	No. of installations
Aberdeen City	6	100
Aberdeenshire	226	990
Angus	17	460
Argyll & Bute	51	860
Clackmannanshire	<1	120
Dumfries & Galloway	48	1,450
Dundee City	5	360
East Ayrshire	9	50
East Dunbartonshire	9	340
East Lothian	13	1,110
East Renfrewshire	2	60
Edinburgh City	13	860
Falkirk	4	260
Fife	41	2,060
Glasgow City	15	1,020
Highland	110	1,320
Inverclyde	2	60
Midlothian	7	380
Moray	28	1,500
Na h-Eileanan Siar	41	1,200
North Ayrshire	9	400
North Lanarkshire	17	990

Orkney Islands	21	840
Perth & Kinross	52	1,220
Renfrewshire	10	300
Scottish Borders	30	1,540
Shetland Islands	13	300
South Ayrshire	11	110
South Lanarkshire	34	2,250
Stirling	22	2,420
West Dunbartonshire	10	320
West Lothian	29	200
Various local authorities	2	850
Grand Total	908	26,290

Note: Various local authorities is the category for installations that locate across several local authorities and the specific proportion for each local authority is unknown.

ANNEX B – Data Dictionary

The Scottish Government defines 'community and locally owned renewable energy' as technologies producing heat and/or electricity from a renewable source, where the owner of the installation is in one of the following categories:

- A community group
- A local Scottish business
- A farm or estate
- A local authority
- A housing association

Other public sector and charitable organisations, including:

- Charities, including faith organisations.
- Public bodies or publicly owned companies
- Further or higher education establishments such as universities and colleges
- Recipients of Scottish Community and Householder Renewables Initiative (SCHRI) grants under the community stream of the programme
- Recipients of Community and Renewable Energy Scheme (CARES) support

Ownership has not been restricted to cases where the organisation owns the entire renewable installation. In such cases where the ownership of a project is shared, only the percentage of the installation's capacity equal to the share owned by the community or local owner is included. Ownership does not include cases where the community or local partner does not directly own a stake in the project, for example, cases where a local farmer or community group receives only a community benefit or land rental payments are not included.

The following definitions have been used to determine which category each installation belongs to:

- **Communities** have been defined as communities of place, i.e. based around a sense of shared location. They often have charitable status. In some instances, the renewable technology and/or income from it may be owned by a trading subsidiary, which may be registered as a separate company.
- **Charities** have been defined as charitable organisations which are also not a community group, e.g. the Royal Society for the Protection of Birds (RSPB). 'Charity' has also been taken to include leisure trusts, churches, and other religious organisations.

- **Public bodies** are those listed in the National Public Bodies Directory, including NHS health boards. Other publicly owned organisations such as the fire and rescue services and the police forces are also included in this group, although they are not strictly public bodies.
- **Further or higher education establishments** are the colleges and universities who are members of the Association of Scotland's Colleges (ASC) or Universities of Scotland.
- **Local Scottish businesses** are small or medium-sized enterprises (SMEs) registered with Companies House at an address in Scotland. Businesses receiving funding through the Community and Renewable Energy Scheme (CARES) or through Resource Efficient Scotland (RES) SME loans have been included. Note that this definition excludes Scottish SMEs whose purpose is to develop renewable energy projects at a location significantly removed from their registered office, and where the business does not own the land where the installation will be built.
- **Farms or estates** are those organisations where the renewable technology is installed on land currently used for agricultural or other farming purposes, or on buildings that are part of a farm or estate layout; and (where the installation needs planning permission) where the person or organisation listed as the applicant in the planning application gives their address as being in Scotland. Farms and estates receiving funding through Local Energy Scotland (LES) have been included.
- **Local authorities** are the 32 unitary local authorities in Scotland.
- **Housing associations** are providers of social housing within Scotland, other than local authorities.
- **Various local authorities'** for installations that locate across several local authorities and the specific proportion for each local authority is unknown.