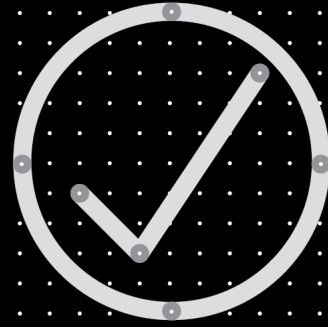


MCS Standards Update

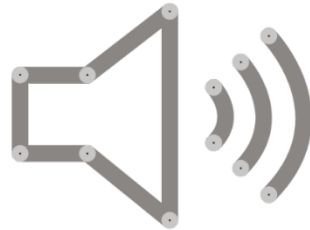


2024 OVERVIEW NEWSLETTER



Giving everyone confidence
in home-grown energy

Introduction

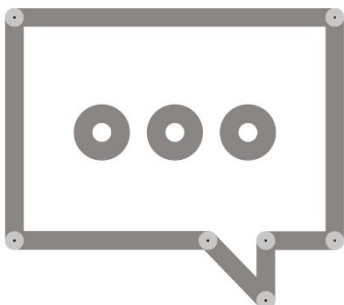


Welcome to our **MCS Standards Update 2024 Overview Newsletter!**

2024 has been another record breaking year in a row for small scale renewables, with over 260,000 MCS certified installations reinforcing the importance of the vital role MCS Standards play in ensuring the quality and safety of small-scale renewable installations. The maintenance and evolution of the MCS Standards would not be possible without the work of the industry experts that make up our technical Working Groups and because of this, we would like to extend our gratitude to all our Working Group members.

We invite you to look back on the highlights of the past year, including a spotlight on the contributions of our Working Groups, the latest updates on both published and under-review Standards, and statistics that capture the progress and growth of the Scheme.

2024 Overview



Working Group meetings:

- Heat Pump Working Group Meetings = 5
- Heat Pump Subgroup Meetings = 3
- Solar PV Working Group Meetings = 2
- Battery Storage Working Group Meetings = 2
- Solar Heating Working Group Meetings = 0
- Biomass Working Group Meetings = 1
- Solar Mounting Working Group Meetings = 5
- Wind Working Group Meetings = 2
- Micro CHP Working Group Meetings = 0

- MCS Working Group Event = 1

Published Standards:

MCS 004 – The Solar Heating Product Standard

MCS 005 – The Solar PV Product Standard

MCS 006 – The Small Wind Turbine Product Standard

MCS 017 – The Bespoke Building Integrated PV Product Standard

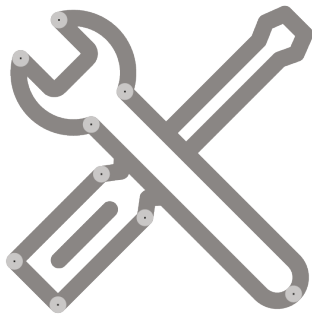
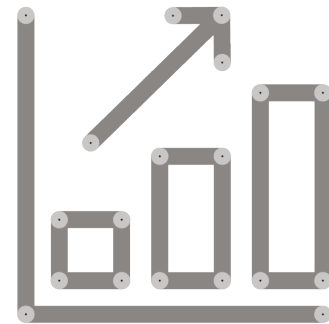
MCS 020 – Wind Turbine Calculation Procedure

MCS 031 – Heat Pump Pre Sale Information and Performance Calculation

MCS 033 – Wind Energy Pre-sale information and Performance Calculation

MIS 3003 – The Small Wind Turbine Installation Standard

MIS 3005-D : The Heat Pump Design Standard



MCS Heat Load Calculator

In 2024 our team worked hard getting ready to launch our new Heat Load Calculator. The Heat Load Calculator is a free tool that will help MCS certified low-carbon heating installers complete a BS EN 12831-1: 2017 compliant heat load calculation, as required in The Heat Pump Design Standard (MIS 3005-D) and The Biomass Installation Standard (MIS 3004). This calculation is crucial for ensuring a heat pump or biomass system is sized correctly, helping installers to meet the requirements of MCS standards.

This new digital tool replaced the existing Excel-based Heat Loss Calculator. Whilst the Excel tool remains available, this new Heat Load Calculator will sit alongside it.

The calculator became exclusively available to MCS certified installers from December 2024 more information can be found on our website:

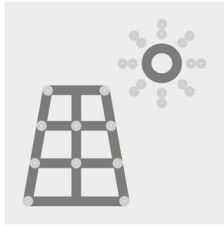
<https://heatloadcalculator.mcscertified.com/>

2024 Scheme Statistics

Electricity-generating technologies

MCS set Standards for the installation of systems up to 50kWe capacity

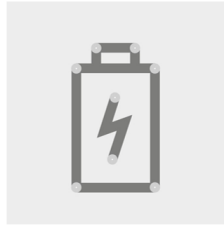
SOLAR PHOTOVOLTAIC



2024
184,511 installations

2023
198,362 installations

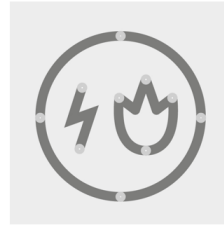
BATTERY STORAGE



2024
20,048 installations

2023
4,965 installations

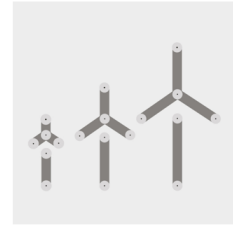
MICRO CHP



2024
0 installations

2023
7 installations

SMALL WIND TURBINES



2024
4 installations

2023
1 installation

Heat-generating technologies

MCS set Standards for the installation of systems up to 70kWth capacity

AIR SOURCE HEAT PUMP



2024
56,450 installations

2023
37,721 installations

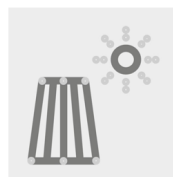
GROUND/WATER SOURCE HEAT PUMP



2024
1,456 installations

2023
2,703 installations

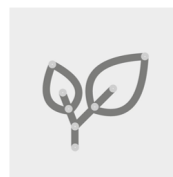
SOLAR HEATING



2024
180 installations

2023
313 installations

BIOMASS



2024
183 installations

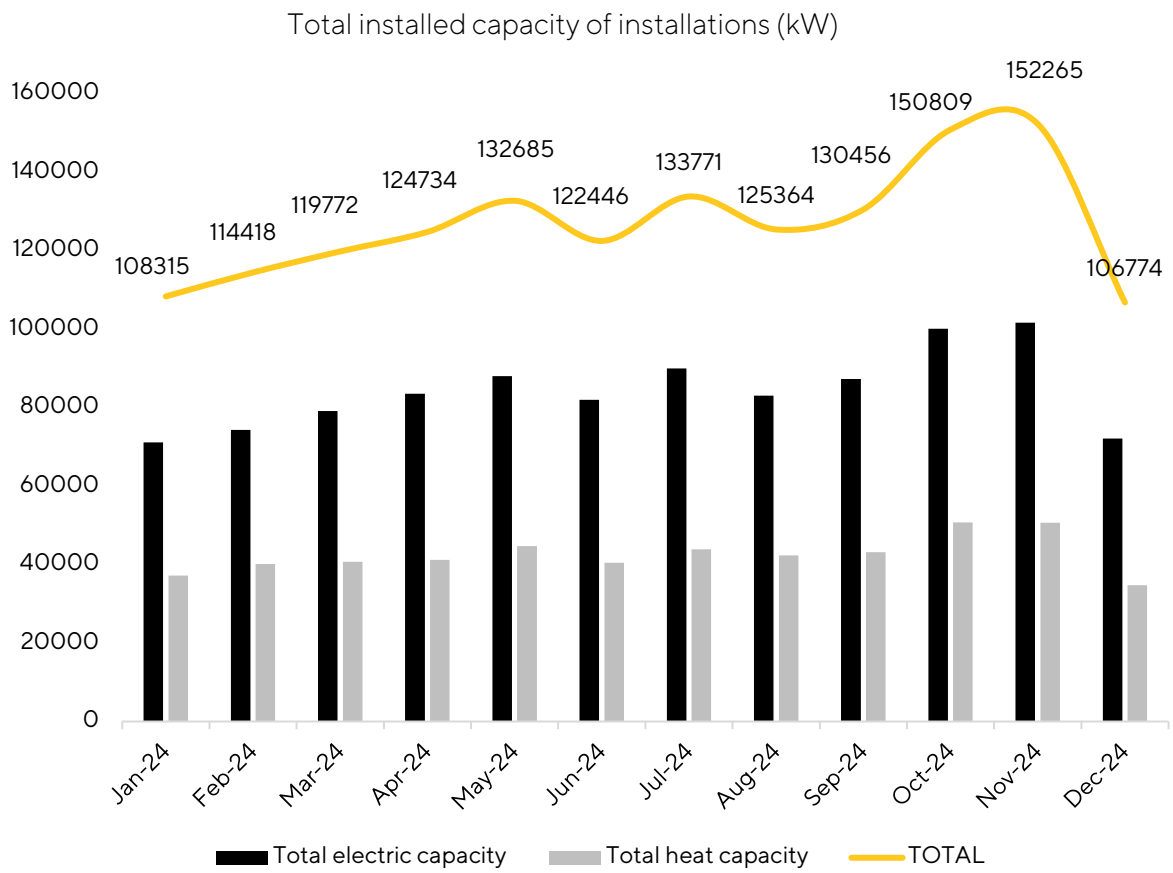
2023
203 installations

EXHAUST AIR HEAT PUMP



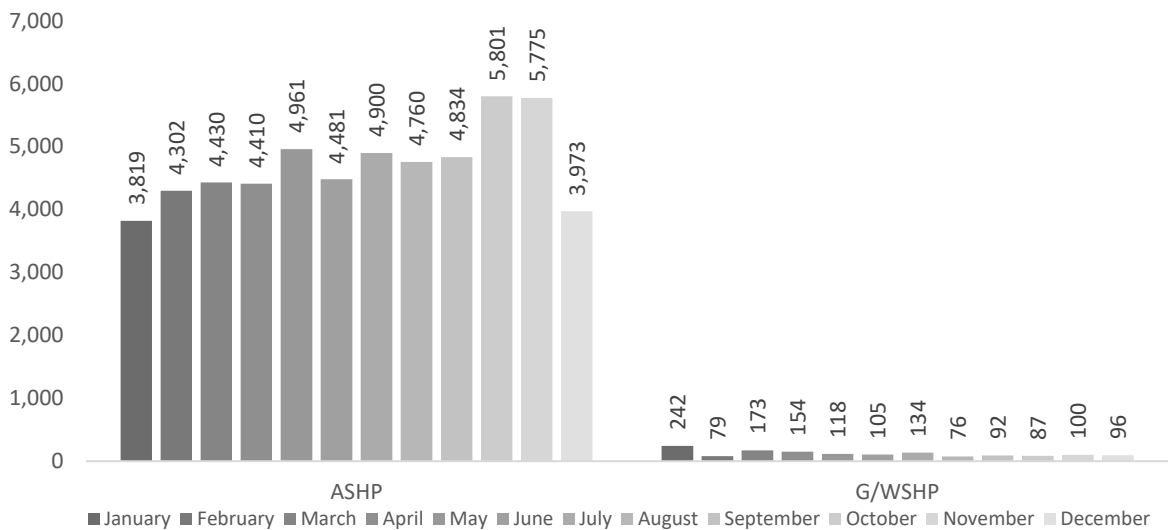
2024
12 installations

2023
2 installations

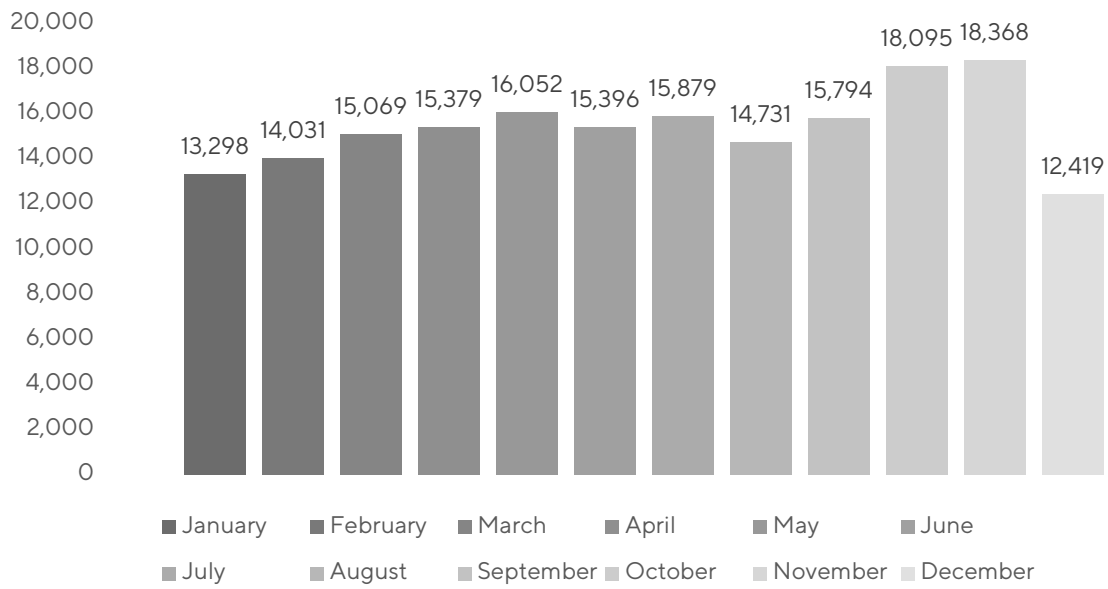


2024 Monthly Installations for all technologies

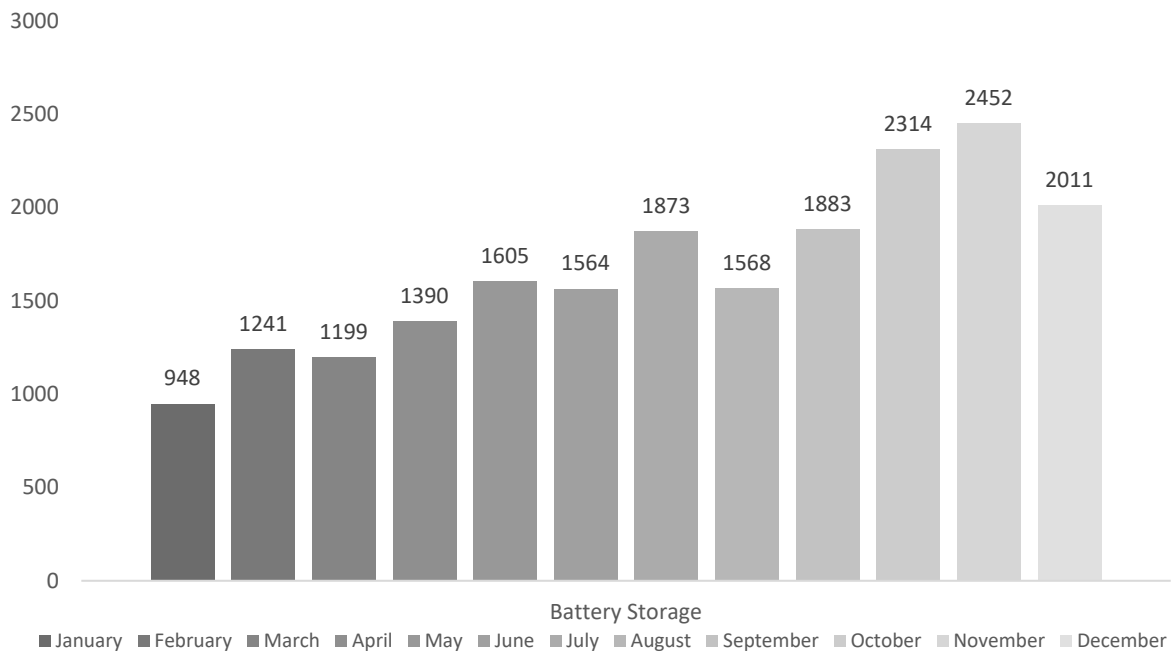
MCS Certified Heat Pump 2024 Monthly Installation Total



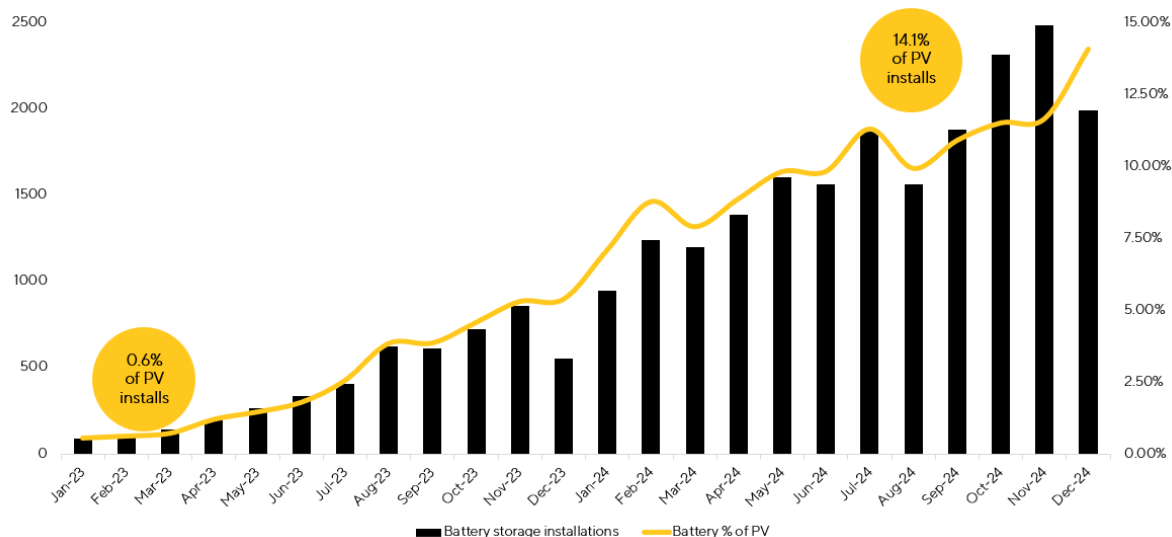
MCS Certified Solar PV 2024 Monthly Installation Total



MCS Certified Battery Storage Monthly Installation Total

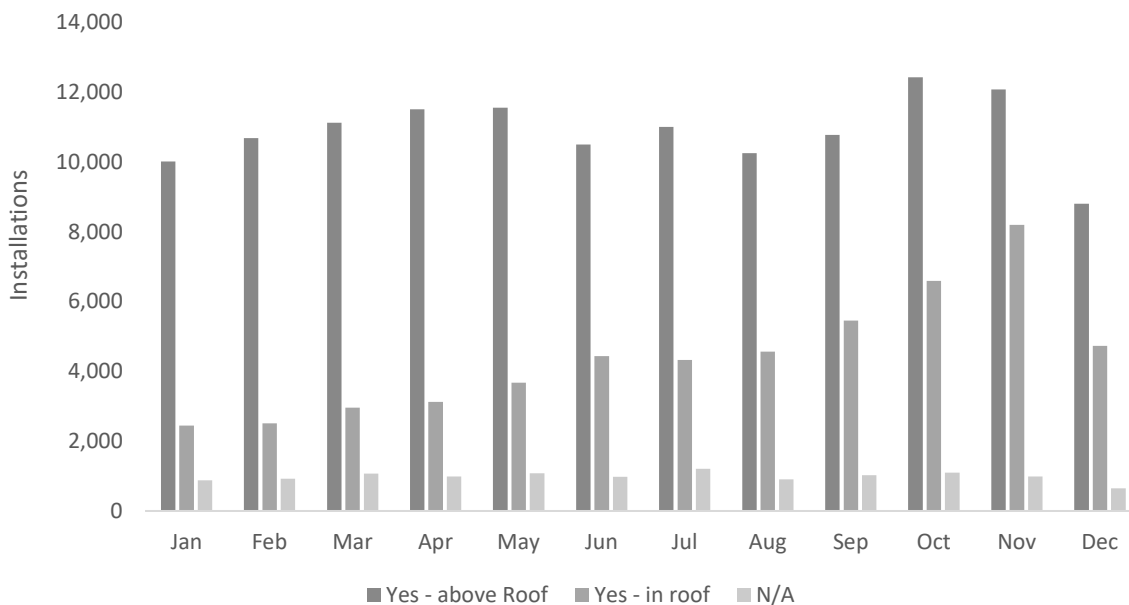


Battery storage with PV % (2023-2024)



Solar Mounting Statistics

Pitched Roof Kits Used in Solar PV Installations Over Time

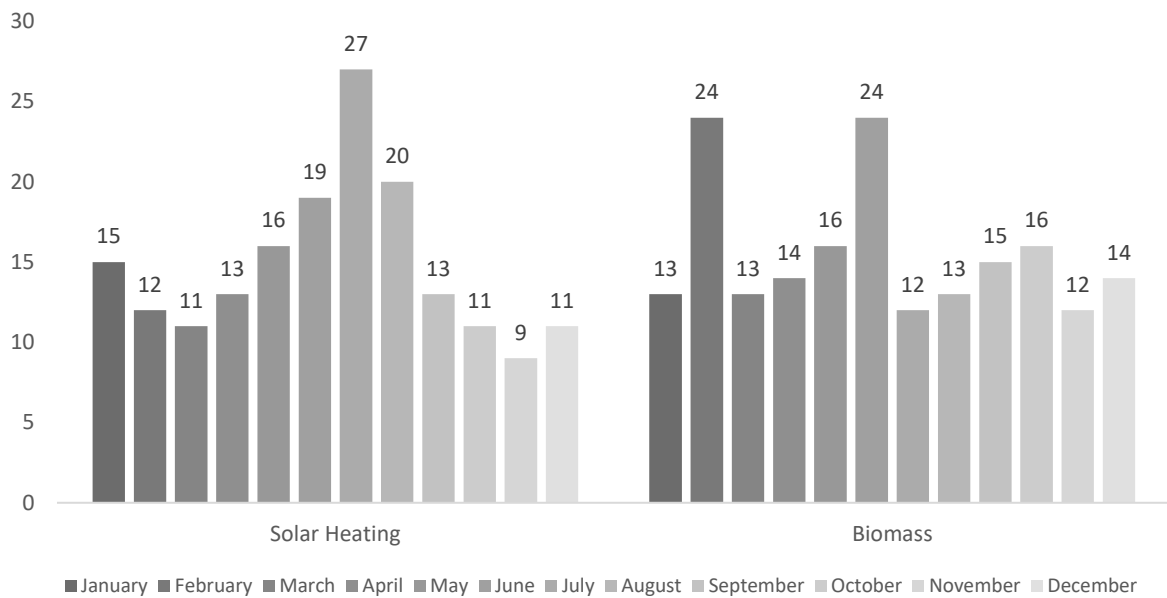


Pitched Roof Kit Used?	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
Not applicable	877	928	1075	986	1082	979	1212	910	1028	1095	990	650	11812
Yes - above roof	10022	10689	11131	11512	11565	10502	11010	10257	10778	12436	12086	8812	130800
Yes - in roof	2447	2508	2962	3129	3676	4441	4331	4566	5457	6594	8202	4737	53050

MCS Certified Solar Mounting Products	End of 2022	End of 2023	End of 2024	% change from 2023 - 2024
Solar PV	124	123	118	-4.06%
Solar heating	9	9	9	0.0%

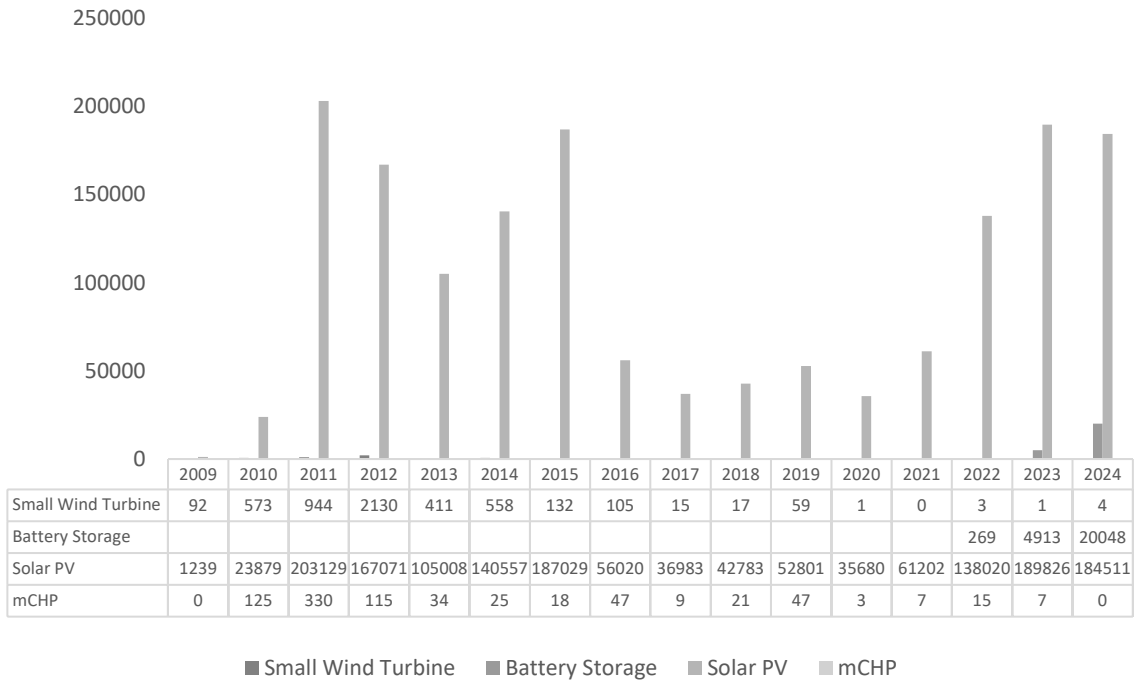
Pitched Roof Kit used?	Solar Photovoltaic installations proportions	Solar Thermal installations proportions
Not applicable	6%	39%
Yes - above roof	67%	49%
Yes - in roof	27%	12%

MCS Certified Heating Technologies Monthly Installation Total

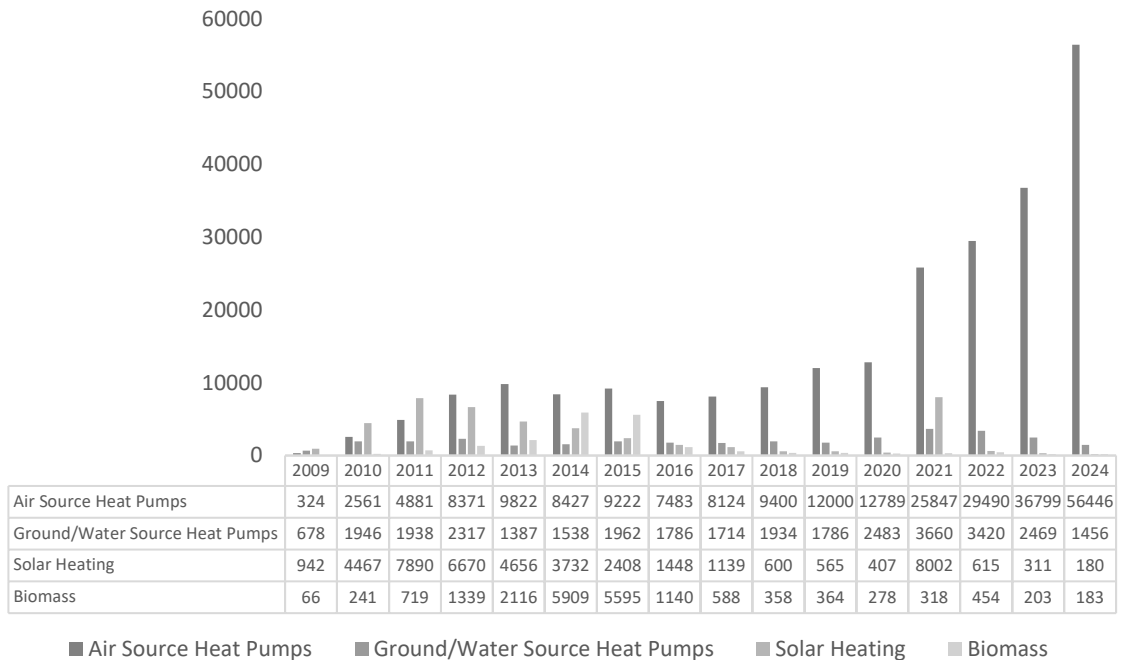


MCS Installations Over Time

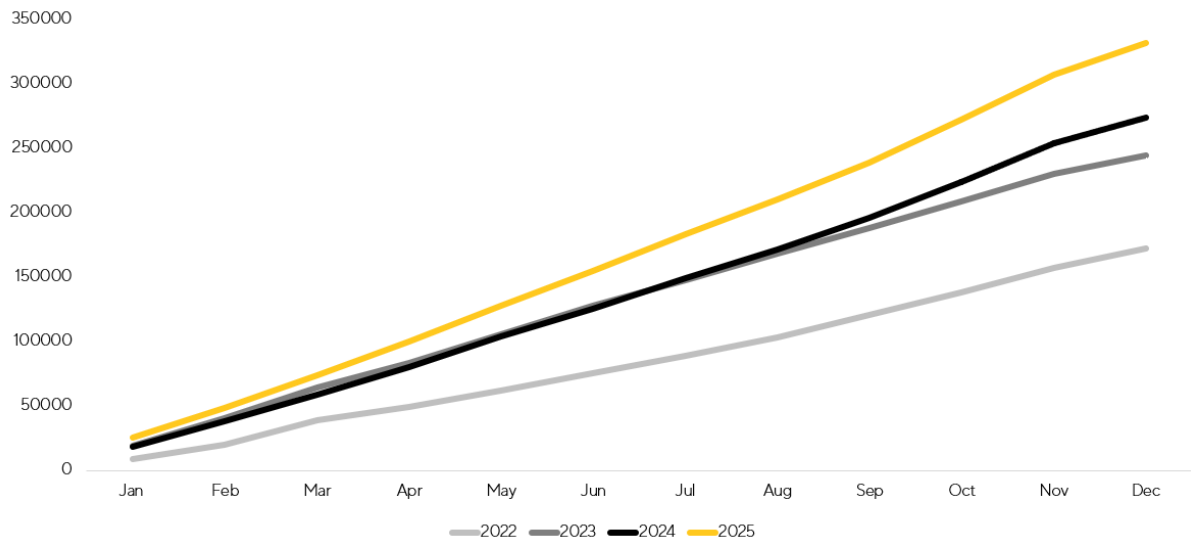
MCS Certified Electricity Generating Technology Installations Over Time



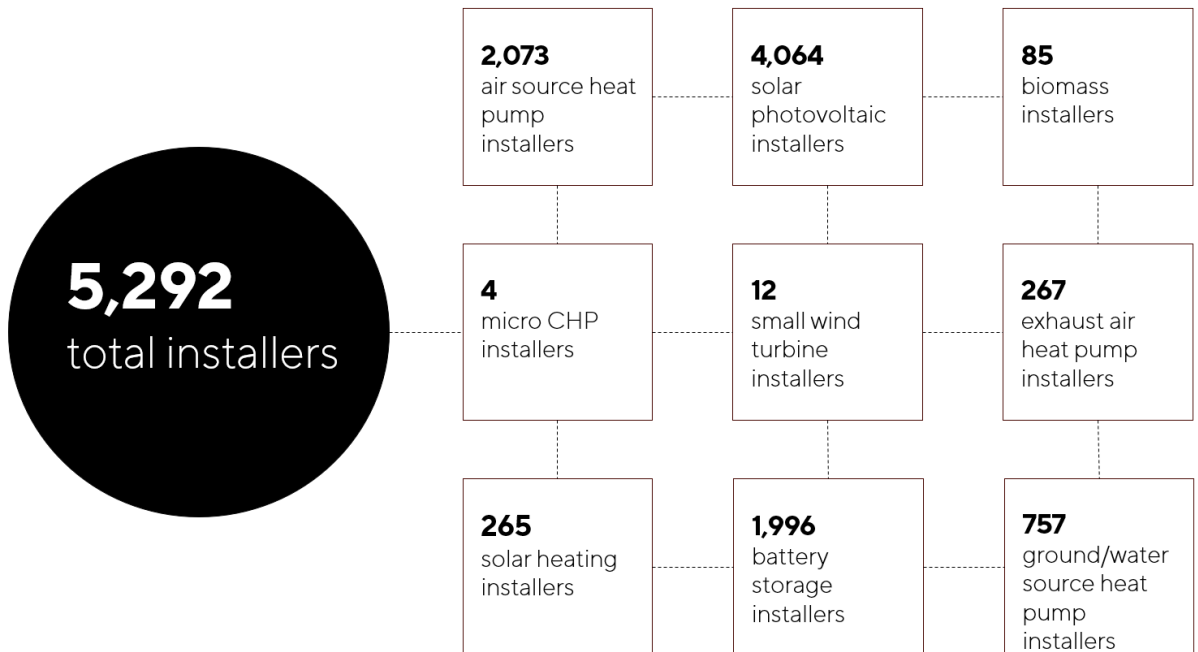
MCS Certified Heat Generating Technology Installations Over Time



Cumulative installations - forecast for 2025

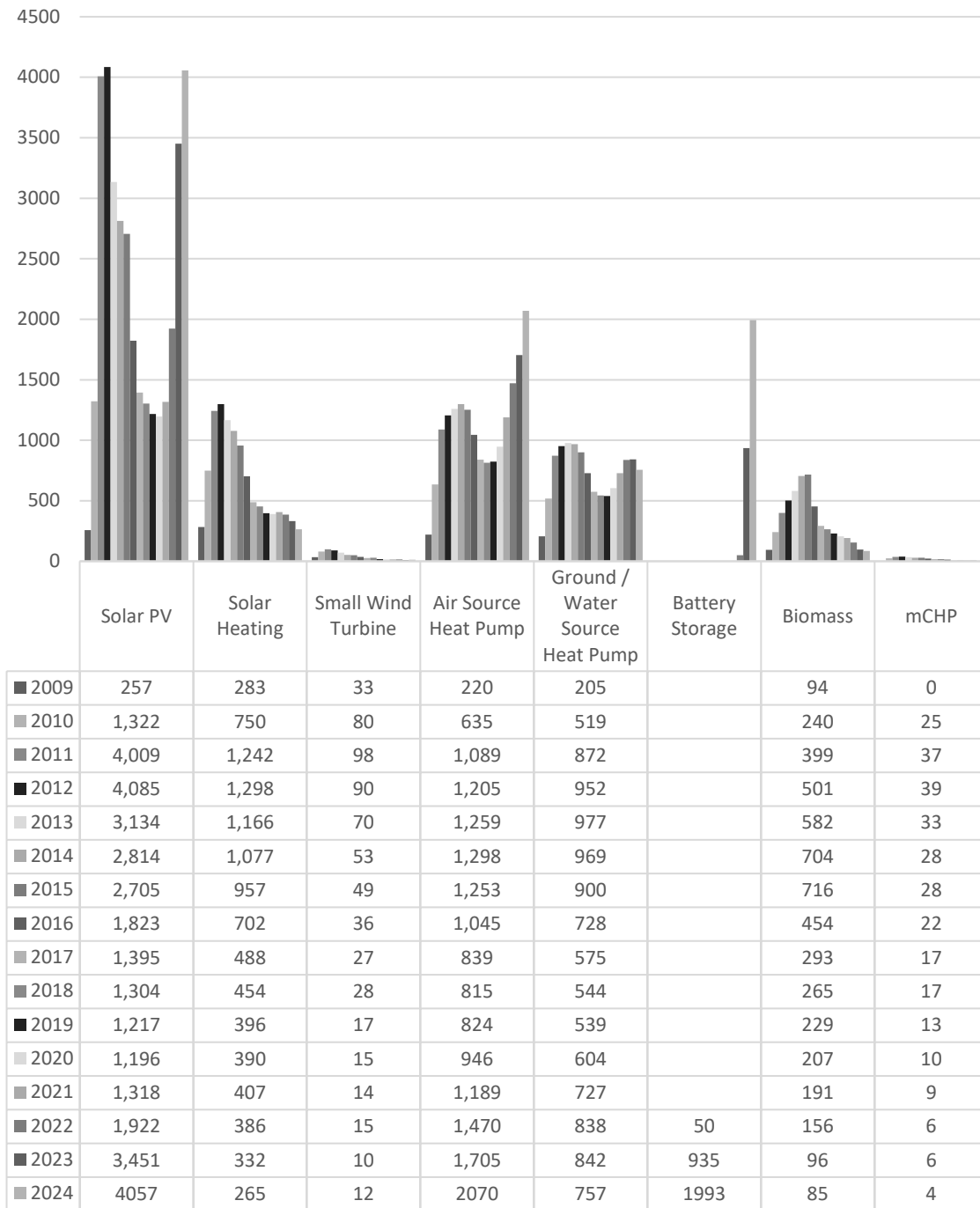


Installer base breakdown (2024 year-end)



Contractor base breakdown over time

Contractor base breakdown over time

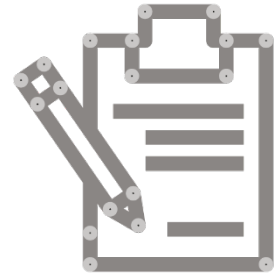


Installer Scheme Redevelopment

In 2024 MCS worked hard to achieve UKAS accreditation for the Redeveloped Installer Scheme and we have now released the new Scheme documents, updated Standards and associated processes early in 2025. Following a period of transition we expect the Scheme to be fully rolled out in 2026.

Publishing the core documents and updated structure for the Redeveloped Installer Scheme marks a key milestone in our journey to enhance standards for small-scale renewables. These changes simplify and clarify the certification process for Installers while maintaining robust technical and consumer protection standards. The main elements of the redeveloped scheme for installers include:

- Reduce the focus on paper work in favour of delivered quality
- Risk of non-compliance will determine assessment frequency
- Standardised assessments
- Centralised customer complaint management
- A more direct relationship with MCS
- Consumer Code Membership no longer mandatory



2025

Standards under review:

- MIS 3005 D: The Heat Pump Design Standard
- MIS 3005 I: The Heat Pump Installation Standard
- MIS 3004 – Biomass Installation Standard
- MCS 008 – Biomass Product Standard
- MCS 040 – Biomass Maintenance Standard (NDRHI)
- MCS 012 – Solar Mounting Product Standard
- MCS 031 – System Performance Estimate
- MCS 026 – SCOP and SSHEE Calculator
- PV Self-Consumption Guidance
- MIS 3002 – Solar Mounting Installation Standard
- MIS 3012 - Battery Storage Installation Standard

In development:

- TESS Installation Standard and System Performance Estimate Standard
- Battery Storage Product Standard



Heat Pump Performance Monitoring Project

MCS is starting a project to better understand factors that define and influence heat pump performance. To inform best practice within industry, evidence must be collected and challenged to support consumer confidence in heat pumps and MCS standards development.

This will support the industry's expansion as it advances towards the UK Government's ambitious targets for domestic heat pump installations.

We kickstarted the project with a meeting in London in February which included presentations from DESNZ, Catapult, Open Energy Monitor and UCL.



Latest News

To keep up to date with the latest news stories and events from MCS and to subscribe to our email updates, read more [here](#).

For access to the MCS Data Dashboard, the most comprehensive tool for near-real-time updates on the MCS Installations Database (MID) data, click [here](#).

LinkedIn

In 2024 MCS set up an exclusive LinkedIn Group for Working Group Members, we have been busy recruiting and are proud to say there are currently 144 Members from across all Working Groups.

Our purpose for setting up this group was to create a space for our Standards community to engage and strengthen collaboration, stay informed about upcoming meetings and the outputs (including minutes, actions, and statistics updates), and to keep up to date with the latest information from MCS including news articles and consultations.

To join the exclusive LinkedIn page for MCS Working Group Members please email [@MCS Meetings & Events](#)

Once you have been accepted into the group please ensure you turn on notifications for group posts using the icon indicated below:

