

27 February 2023

Dear

ATISN 17191– Solar in Wales

Information requested

Thank you for your request which I received on 23 February 2023. You asked for:

- 1) What is the known average annual generation of electricity for Solar PV in Wales, as a percentage of their Capacity for the latest recent year Welsh Government holds statistics.
- 2) What is the known average annual generation of electricity for Onshore Wind turbines in Wales, as a percentage of their Capacity for the latest recent year Welsh Government holds statistics.
- 3) What is the known average annual generation of electricity for Offshore Wind turbines in Wales, as a percentage of their Capacity for the latest recent year Welsh Government holds statistics.

Our response

The data you have requested is in the public domain as a National Statistic at a UK level. We do not hold specific data for Wales, but it is reasonable to assume load factors here will not differ significantly from the average UK factors.

Chapter 6 of the Digest of UK Energy Statistics (DUKES), which covers renewable sources of energy, can be found here:

<https://www.gov.uk/government/statistics/renewable-sources-of-energy-chapter-6-digest-of-united-kingdom-energy-statistics-dukes>

The data requested can be found in the document Load factors for renewable electricity generation (DUKES 6.3), which can be accessed from the link above. Reviewing the time series over recent years will provide an insight into the variability in output due primarily to weather conditions.

As a percentage, the following load factors, based on the average capacity at the start of the year and capacity at the end of the year are:

Solar PV - 10.0%

Onshore - 23.2%

Offshore - 37.4%

Next steps

If you are dissatisfied with the Welsh Government's handling of your request, you can ask for an internal review within 40 working days of the date of this response. Requests for an internal review should be addressed to the Welsh Government's Freedom of Information Officer at:

Information Rights Unit,
Welsh Government,
Cathays Park,
Cardiff,
CF10 3NQ

or Email: Freedom.ofinformation@gov.wales

Please remember to quote the ATISN reference number above.

You also have the right to complain to the Information Commissioner. The Information Commissioner can be contacted at: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF.

However, please note that the Commissioner will not normally investigate a complaint until it has been through our own internal review process.

Yours sincerely