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Energy Statistics for Scotland Q4 2021 Figures

March 2022

The Scottish energy statistics hub is a 'one-stop shop' for all Scottish energy data. It will be updated as new data is available.

Scottish Energy Statistics Hub:

https://scotland.shinyapps.io/sgenergy

Scottish Energy Strategy.

https://www.gov.scot/ publications/scottish-energystrategy-future-energyscotland-9781788515276/

Key Points:

- In 2021, 27.2 TWh of renewable electricity was generated in Scotland. This is a 15.1% decrease compared to 2020, which is likely due to milder weather throughout the year.
- The amount of **renewable electricity generated** in Scotland in **2021** is the equivalent of **powering all households** in Scotland for almost three years.
- Renewable electricity generation between October and December 2021 was up by 6.4% on Q4 2020. This is the most renewable electricity generated in the final quarter of a year in Scotland.
- Capacity has grown slightly from 12.2 GW in September2021 to 12.3 GW in December 2021.
- Scotland's **net exports** of electricity (exports minus imports) in **2021** was **16.0 TWh**, a **17% decrease** compared to **2020**. However the value of Scotland's electricity exports had an estimated wholesale market value of £2.4 billion, which is more than three times the estimated wholesale market value of electricity exports in 2020. This is due to large increases in the average price of electricity in 2021, particularly in the latter half of the year.
- The majority of Scotland's renewable electricity generation continues to come from wind (19.9 TWh). In 2021, 2.7 TWh was generated via offshore wind, and 17.2 TWh was generated by onshore wind.

Revisions:

Final figures for the heat and electricity target years have been reported previously, so they will no longer be reported here. We will continue to update figures on the energy statistics hub going forward.

Change in energy productivity relative to the baseline was revised to 6.2% from 5.9%

Energy Targets: Overall renewable energy target Total Scottish energy consumption from renewables	Provisional 25.4% in 2020	50% by 2030
Energy consumption target Reduction in total energy consumption from 2005-07	Provisional 14.4% in 2020	112% by 2020
Energy productivity target % change in gross value added achieved from the input of one gigawatt hour of energy from 2015.	Provisional ↓ 6.2% in 2020	↑30% in 2030

Renewable electricity generation

2021 saw a decrease in renewable electricity generation in Scotland with 27.2 TWh generated, down 15.1% on 2020.

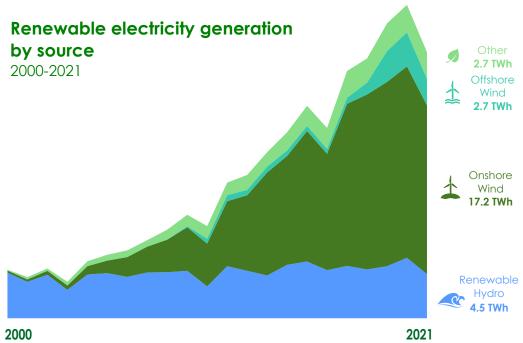
The majority of Scotland's renewable electricity generation continues to come from wind (19.9 TWh).

Renewable electricity generation from **all fuels** fell in 2021. Likely due to the milder weather throughout the year.

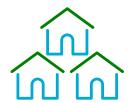
Renewable electricity generation

2012-2021





In 2021, renewable generation was the equivalent to...



Powering **all households** in Scotland for around **three years**.



Charging almost **6 billion phones** for a **year**.



Running all Scottish fridges for around 7 years.

Electricity

Scotland's net exports of electricity saw a decrease in 2021 at 16.0 TWh compared to 19.3 in 2020.

Estimated wholesale market value of electricity exports tripled compared to 2020, due to large increases in average electricity price in 2021.

Capacity has grown slightly, 12.3 GW in December 2021, up 0.1 **GW** since September 2021.

15.2 GW of projects are in the pipeline for development. 2.9 GW on these are under construction, mainly offshore wind

