

Published: 26th March 2020 Next update: 25th June 2020 Contact: energystatistics@gov.scot

Energy Statistics for Scotland Q4 2019 Figures

March 2020

We have recently launched a Scottish energy statistics hub. which 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

Targets:

These targets track progress towards the future of energy in Scotland in line with the Scottish Energy Strategy.

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

Revisions:

Energy productivity was revised to **0.4%** from 0.3%.

Key Points:

- •2019 was a record year for renewable electricity generation in Scotland with **30.5 TWh** generated, **15.3% up** on 2018. This is the equivalent of powering all households in Scotland for over three years, or charging almost 6.7 billion mobile phones for a year.
- Renewable electricity generation in between **October** and December 2019 was in fact down by 2% on Q4 2018. Even though capacity increased from 11.0 GW in December 2018 to 11.8 GW in December 2019, lower wind speeds may have contributed to the lower generation.
- Record renewable electricity generation meant that significant progress was made towards Scotland's renewable electricity target in 2019; now an estimated 90.0% of gross electricity consumption came renewable sources, up from 76.2% in 2018.
- •The record generation also meant that Scotland's net exports of electricity (exports minus imports) in 2019 was its highest to date at 15.9 TWh. Scotland's electricity exports had an estimated wholesale market value of almost £745 million.
- The majority of Scotland's renewable electricity generation continues to come from wind (22.4 TWh). Offshore wind grew substantially in 2019; 3.3 TWh was generated last year via offshore wind, up from 1.3 TWh in 2018. This is due to the Beatrice wind farm off the Caithness coast becoming fully operational in May 2019.
- However, Scotland's renewable electricity **capacity** levelled off at 11.8 GW since June 2019.
- •13.0 GW of renewable electricity projects are consented and in the pipeline for development. 1.2 GW on these are under **construction**, most of which are **offshore wind** farms off the Moray Firth.

Latest	Target
20.9% in 2018	50% by 2030
90.0% in 2019	100% by 2020
6.3% in 2018	11% by 2020
↓ 12.1% in 2018	↓ 12% by 2020
1 0.4% in 2018	1 30% in 2030
	20.9% in 2018 90.0% in 2019 6.3% in 2018 12.1% in 2018

Energy productivity target:

Energy targets

2019 was a record year for renewable electricity generation in Scotland with 30.5 TWh generated, 15.3% up on 2018.

Renewable electricity generation

2011-2019 Q1 Q2 Q3 Q4 13,869 GWh 2011 14,667 GWh 2012 16,990 GWh 2013 19,045 GWh 2014 21,743 GWh 2015 19,512 GWh 2016 24.991 GWh 2017 26,473 GWh 2018 7,592 GWh 4,971 GWh 5,067 GWh 8,842 GWh

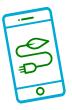
In 2019, renewable generation was the equivalent to...

5,933 GWh



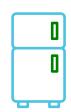
9,026 GWh

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



6,908 GWh

Charging almost **6.7 billion phones** for a **year**.



30,528 GWh

8,662 GWh

Running
all Scottish fridges
for close to 8 years.

Onshore Wind: 56.1%

2019

In 2019, **90.0%** of gross electricity consumption came from renewable sources, up **13.8** percentage points from 2018.

Scotland has a target to deliver the equivalent of 100% of gross electricity consumption from renewables by 2020.

Renewable electricity target

2005-2019

2019

† 74.5 percentage points from 2005 to 2019

13.8 percentage points from 2018 to 2019

90.0%

Other: 8.2%

Hydro: 15.9%

Offshore Wind: 9.8%

2005

15.5%

Electricity

Record renewable electricity generation in 2019 meant that Scotland's **net exports** of electricity was its highest to date at **15.9 TWh**.

Electricity Exports
2019

In 2019, there was a net export of 15.9 TWh of electricity.

This had an estimated wholesale market value of £0.74 billion

The majority of Scotland's renewable electricity generation continues to come from wind (22.4 TWh).

Offshore wind grew substantially in 2019; 3.3 TWh was generated last year via offshore wind, up from 1.3 TWh in 2018.

Despite rapid growth in renewable electricity generation, capacity remains at 11.8 GW in December 2019, unchanged since June.

13.0 GW of projects are in the pipeline for development. 1.2 GW on these are under construction, mainly offshore wind

