



Energy Statistics for Scotland

Q4 2020 Figures

March 2021

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Next update: 24th June 2021
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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/sg-energy>

Scottish Energy Strategy.

<https://www.gov.scot/publications/scottish-energy-strategy-future-energy-scotland-9781788515276/>

Key Points:

- Provisional figures indicate that in **2020**, the equivalent of **97.4%** of Scotland's **gross electricity consumption** was from **renewable sources**, falling just short of the 100% by 2020 **renewable electricity target**. This uses an estimate of **gross consumption**. The final figure will be available in **December 2021**.
This is a corrected figure which supersedes the 93.2% figure published previously.
- **2020** was another **record year** for **renewable electricity generation** in Scotland with **31.8 TWh** generated, **4.2% up** on 2019. This is the equivalent of powering all households in Scotland for almost three and a half years.
- Renewable electricity generation between **October** and **December 2020** was **down** by **3.1%** on **Q4 2019**. This is despite **capacity** increasing for the first time since **June 2019** from **11.8 GW** to **11.9 GW** in **December 2020**.
- Scotland's **net exports** of electricity (exports minus imports) in **2020** was its highest to date at **19.3 TWh**, a **21%** increase compared to **2019**. Scotland's electricity exports had an estimated wholesale market value of **£0.76 billion**.
- The majority of Scotland's renewable electricity generation continues to come from **wind (23.2 TWh)**. **Offshore wind** continued to grow in **2020**; **3.5 TWh** was generated last year via offshore wind, up from **3.2 TWh** in **2019**.
- **14.0 GW** of renewable electricity projects are consented and in the pipeline for development. **2.0 GW** of these are **under construction**, most of which are **onshore wind** farms off the Moray Firth.

Corrections:

The renewable electricity target was corrected to **97.4%** from 93.2% on 25/03/2021.

Revisions:

Change in energy productivity relative to the baseline was revised to **3.2%** from 3.9%.

Energy Targets:

	Latest	Target
Overall renewable energy target Total Scottish energy consumption from renewables	Provisional 24.0% in 2019	50% by 2030
Renewable electricity target Gross electricity consumption from renewables	Provisional 97.4% in 2020	100% by 2020
Renewable heat target Non-electrical heat demand from renewables	Provisional 6.5% in 2019	11% by 2020
Energy consumption target Reduction in total energy consumption from 2005-07	Provisional ↓13.4% in 2019	↓12% by 2020
Energy productivity target % change in gross value added achieved from the input of one gigawatt hour of energy from 2015.	Provisional ↑3.2% in 2019	↑30% in 2030

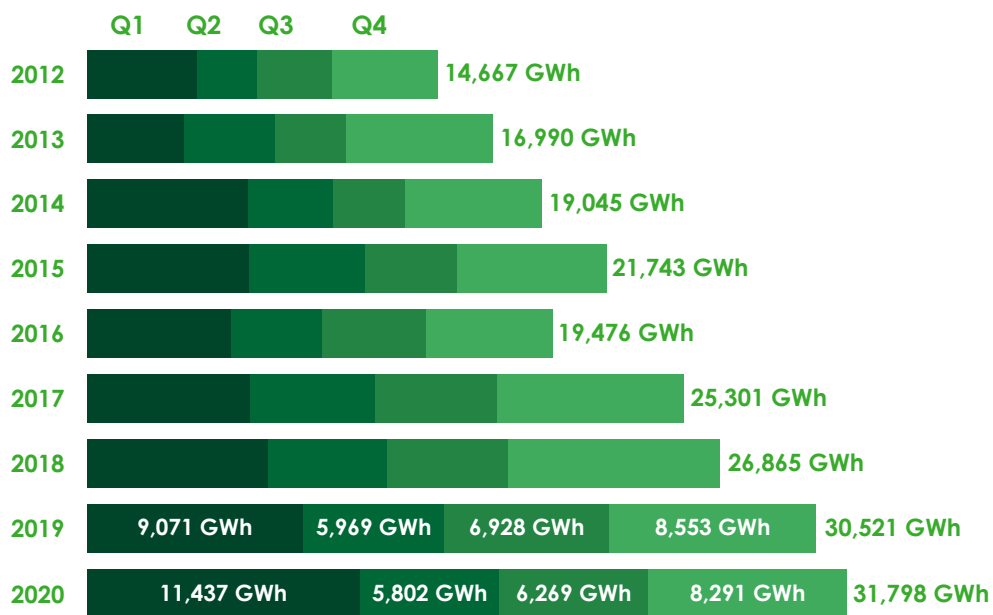
Sources

Renewable energy target: <https://scotland.shinyapps.io/Energy/?Section=WholeSystem&Chart=RenEnTgt>
Renewable electricity target: <https://scotland.shinyapps.io/Energy/?Section=RenLowCarbon&Subsection=RenElec&Chart=RenElecTarget>
Renewable heat target: <https://scotland.shinyapps.io/Energy/?Section=RenLowCarbon&Subsection=RenHeat&Chart=RenHeat>
Energy Consumption target: <https://scotland.shinyapps.io/Energy/?Section=EnergyEfficiency&Subsection=DemandReduction&Chart=EnConsumptionTgt>
Energy productivity target: <https://scotland.shinyapps.io/Energy/?Section=WholeSystem&Chart=EnProd>

2020 was a **record year** for **renewable electricity generation** in Scotland with **31.8 TWh** generated, **4.2% up** on **2019**.

Renewable electricity generation

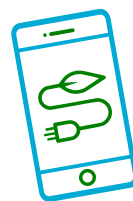
2012-2020



In **2020**, renewable generation was the **equivalent to...**



Powering **all households** in Scotland for almost **three and a half years**.



Charging almost **7 billion phones** for a **year**.



Running **all Scottish fridges** for over **8 years**.

Provisional figures for 2020 show that **97.4%** of gross electricity consumption came from renewable sources, up **8.0 percentage points** from 2019.

Final figures for 2019 show that 89.5% of gross electricity consumption came from renewable sources.

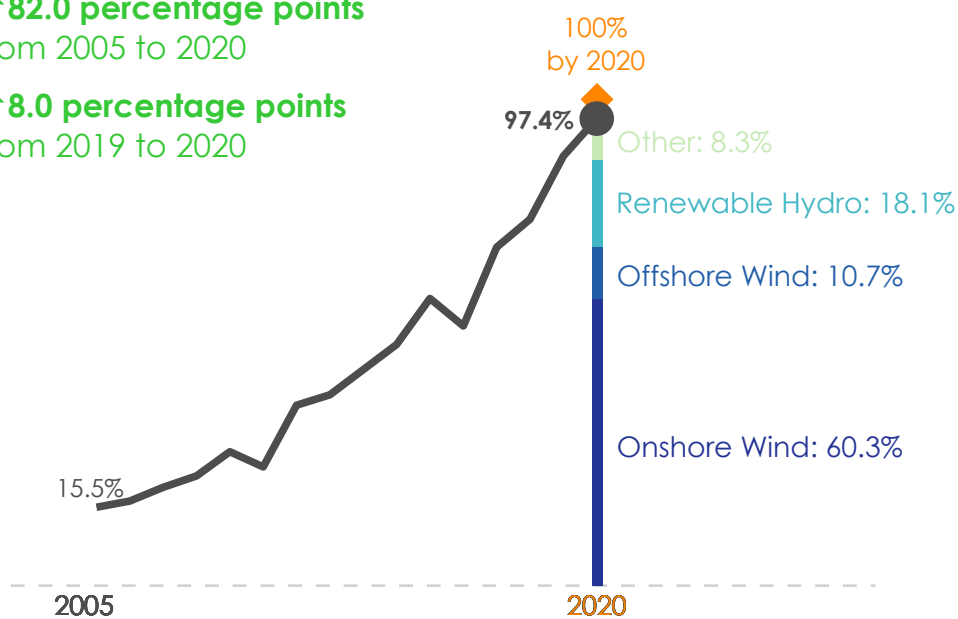
Scotland has a target to deliver the equivalent of **100%** of gross electricity consumption from renewables by **2020**.

Renewable electricity target

2005-2020

↑82.0 percentage points from 2005 to 2020

↑8.0 percentage points from 2019 to 2020



*This figure was corrected to **97.4%** from 93.2% on 25/03/2020

Provisional

Record renewable electricity generation in 2020 meant that Scotland's **net exports** of electricity was its highest to date at **19.3 TWh**.

The majority of Scotland's renewable electricity generation continues to come from **wind (23.2 TWh)**.

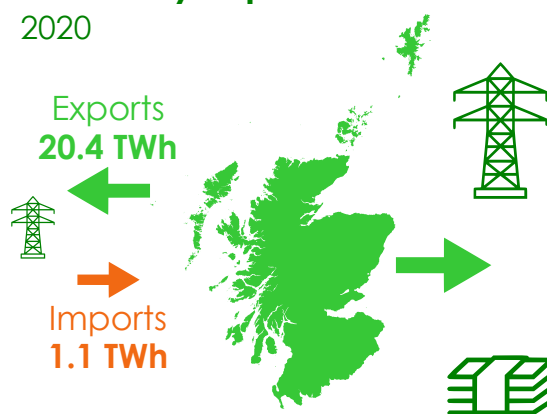
Renewable hydro generation grew the most in **2020**; **5.9 TWh** was generated last year via hydro, up from **5.4 TWh** in **2019**.

Capacity has grown slightly, **11.9 GW** in **December 2020**, up **0.1 GW** since September 2020.

14.0 GW of projects are in the **pipeline** for development. **2.0 GW** on these are **under construction**, mainly **offshore wind**

Electricity Exports

2020

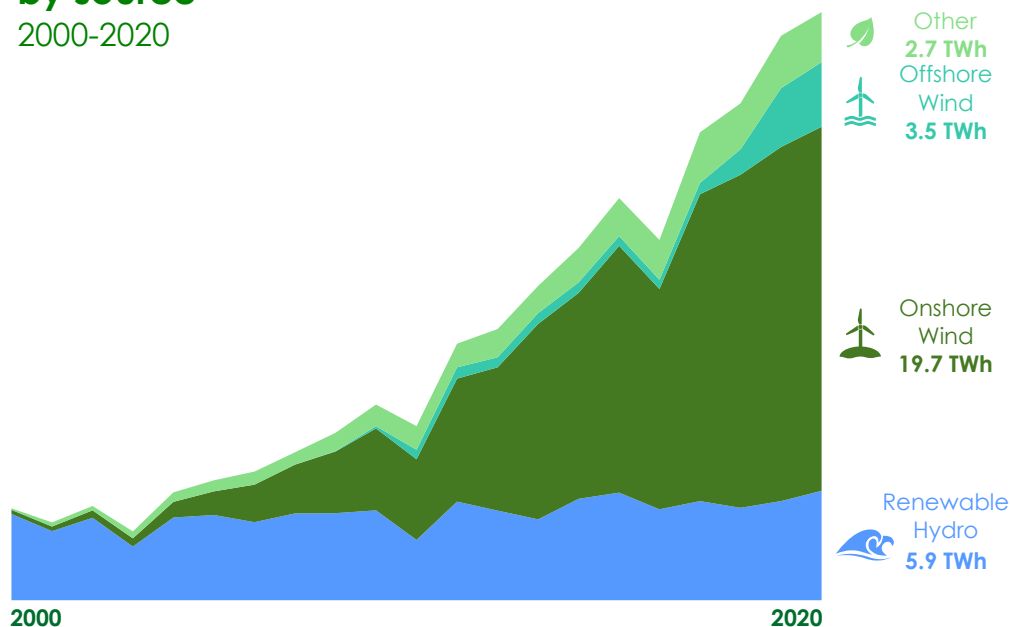


In 2020, there was a **net export** of **19.3 TWh** of electricity.

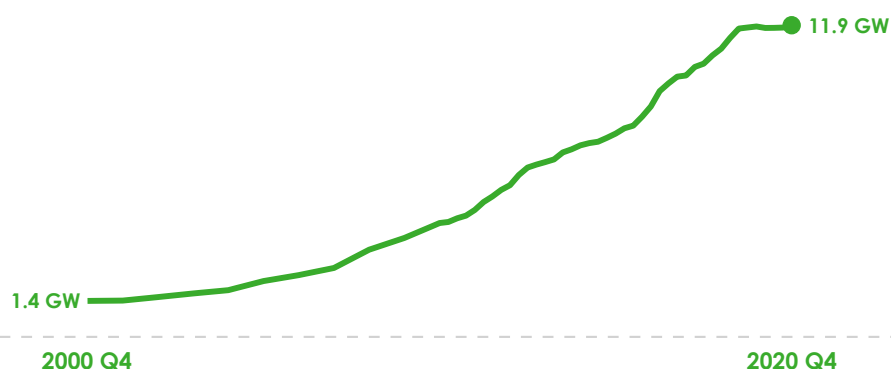
This had an estimated **wholesale market value** of **£0.76 billion**

Renewable electricity generation by source

2000-2020



Renewable electricity capacity, December 2020



Pipeline Capacity - December 2020

Under Construction	Awaiting Construction	In Planning	Total
2.0 GW	7.7 GW	4.3 GW	14.0 GW