Scottish Government
Riaghaltas na h-Alba
gov.scot

Energy Statistics for Scotland Q2 2021 Figures

Published: 30th September 2021
Update expected: 23rd December 2021
Contact: energystatistics@gov.scot

September 2021

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/

Revisions:

Renewable energy target was revised to **23.8%** from 23.9%.

Renewable heat target was revised to **6.6%** from 6.5%.

Energy consumption relative to the baseline was revised to **-14.1%** from -13.8%.

Change in energy productivity relative to the baseline was revised to **4.6%** from 3.7%.

Key Points

- Scotland's **renewable electricity generation** in **2021** in **quarter 2** was **5,301 GWh** – a **decrease** from the **5,893 GWh** generated in the same quarter in 2020.

- In the **first half** of **2021**, Scotland generated **14,115 GWh** of **renewable electricity**, **down 18.7%** on the same point in **2020**. This fall is likely explained by **lower wind speeds** and **lower rainfall** affecting wind and hydro generation in the first half of 2021.

- **Renewable electricity capacity increased** by **2.2%** from **June 2020** to **12.0 GW** in **June 2021**. This is more than double the increase in capacity seen between June 2019 and June 2020 where renewable electricity capacity increased by just 0.9%.

- Scotland's **energy consumption dropped** by **2.3%** from **2018** to **2019**, driven by a **6.2% decrease** in **industrial consumption**.

- This means that overall **energy consumption** is **14.1% lower** than **2005-2007**, and once again below the 2020 target of a reduction of 12% below the baseline.

- Final data for 2019 revised the **renewable energy target** down to **23.8%** from 23.9%, the **renewable heat target** up to **6.6%** from 6.5% and shows that **Energy productivity** was **4.6% greater** than the 2015 benchmark as outlined in Scotland's Energy Strategy, up from 3.7%.

Energy Targets:

	Latest	Target
Overall renewable energy target Total Scottish energy consumption from renewables	Final **23.8%** in 2019	**50%** by 2030
Renewable electricity target Gross electricity consumption from renewables	Provisional* **95.9%** in 2020	**100%** by 2020
Renewable heat target Non-electrical heat demand from renewables	Final **6.6%** in 2019	**11%** by 2020
Energy consumption target Reduction in total energy consumption from 2005-07	Final ⬇ **14.1%** 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.	Final ⬆ **4.6%** in 2019	⬆ **30%** in 2030

***Final figures** for the **Renewable Electricity Target** will be published in **December 2021**

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

Energy Statistics for Scotland - Q2 2021 Figures

Energy consumption

September 2021

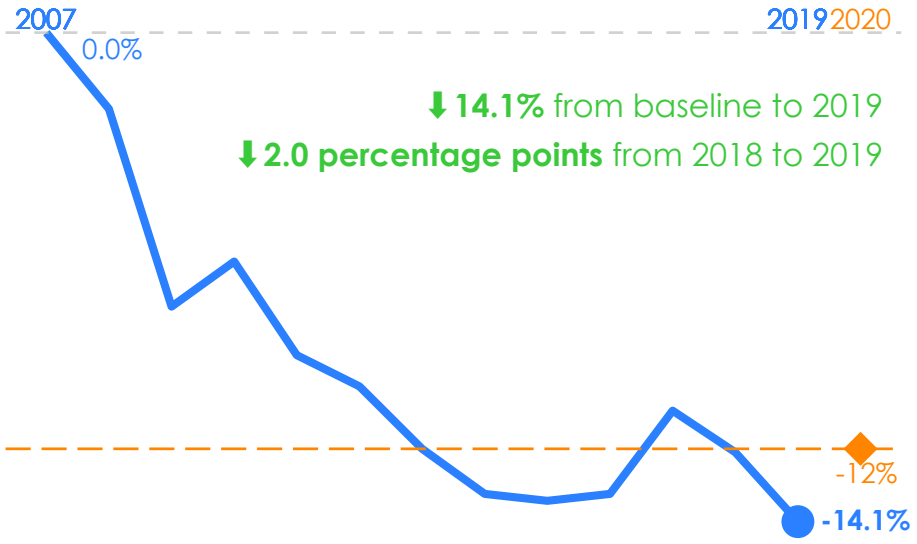
Scotland has a target to reduce final energy consumption by 12% by 2020 from a 2005 to 2007 baseline.

Final 2019 data shows that consumption **remains below 12%, 14.1%** lower than the baseline.

Total energy consumption in Scotland dropped by **2.3%** from 2018 to 2019, driven by a **6.2% decrease in industrial consumption.**

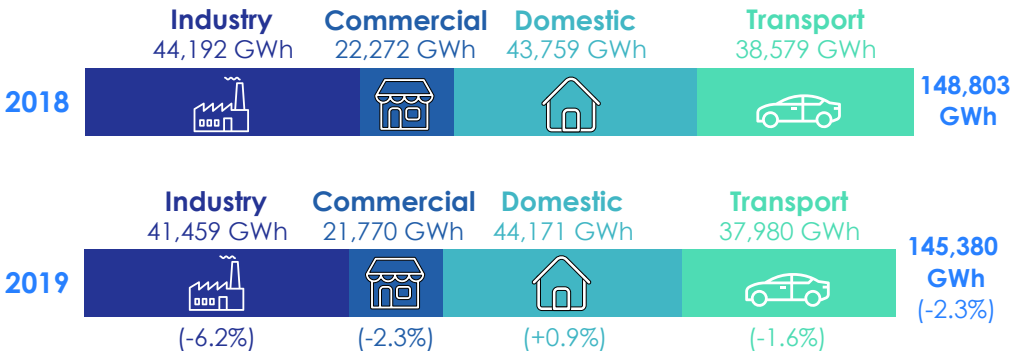
Final energy consumption

2007 - 2019



Energy consumption by sector

2018 - 2019



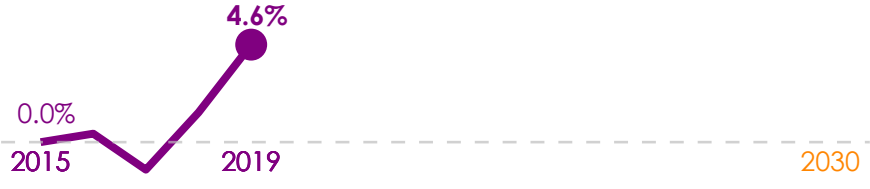
The drop in consumption and a **0.8% increase** in gross value added (GVA) between 2018 and 2019 means that energy productivity increased by **3.2 percentage points.** It is now **4.6%** greater than the 2015 benchmark as outlined in Scotland's Energy Strategy.

Energy Productivity

2015 - 2019

⬆ **4.6%** from 2015 to 2019

⬆ **3.2 percentage points** from 2018 to 2019



Energy productivity is GVA from the input of one gigawatt hour consumed. Higher energy productivity means "squeezing" more out of every unit of energy consumed.

Sources

Energy Consumption target: https://scotland.shinyapps.io/sg-energy/?Section=EnergyEfficiency&Subsection=DemandReduction&Chart=EnConsumptionTgt

Energy Consumption: https://scotland.shinyapps.io/sg-energy/?Section=EnergyEfficiency&Subsection=DemandReduction&Chart=EnergyConsumption

Energy Productivity: https://scotland.shinyapps.io/sg-energy/?Section=WholeSystem&Chart=EnProd

Energy Statistics for Scotland - Q2 2021 Figures

Electricity

September 2021

Renewable electricity generation in **2021 Q2** has **fallen** compared to the same quarter in the previous two years, with **5,301 GWh** of renewable electricity generated. This means renewable electricity generation in the **first half** of **2021** is **18.7% lower** than at the same point in 2020.

This fall is likely explained by the weather.

Lower wind speeds have resulted in **wind generation** being **17.6% lower** in the **first half of 2021** compared to the same period in 2020.

Rainfall has also reduced, leading to a **29.8% fall** in **renewable hydro generation** from the first half of 2020 to the first half of 2021.

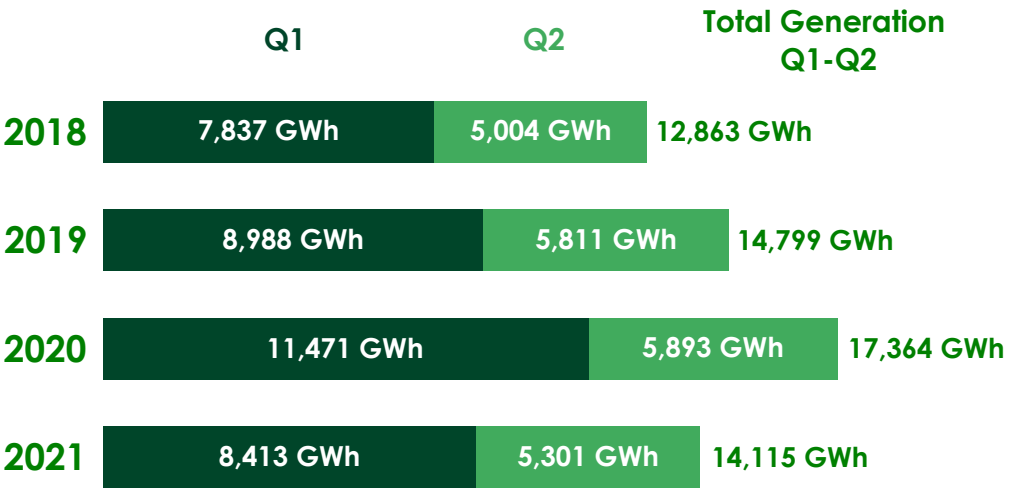
This trend is expected to continue into the third quarter of 2021

In the last twelve months, renewable electricity capacity has risen slightly, **up 2.2%** from June 2020 to **12.0 GW** in June 2021.

This is due to increases in onshore and offshore wind capacity.

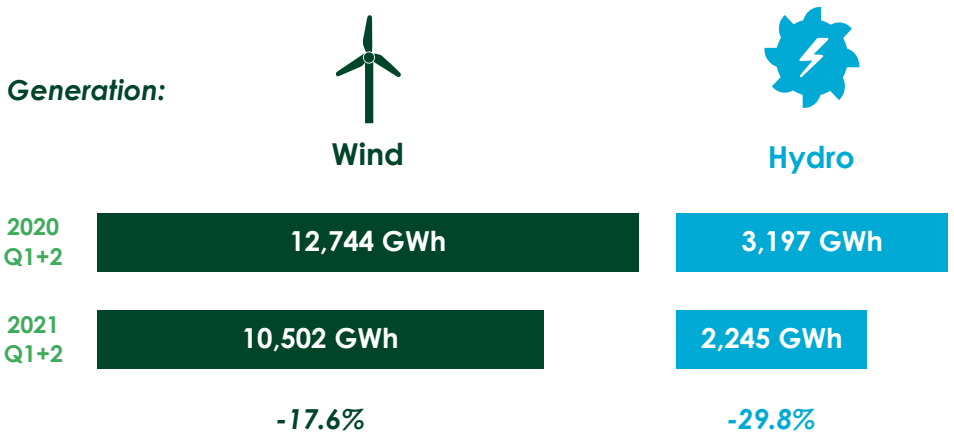
Renewable electricity generation

2018 - 2021

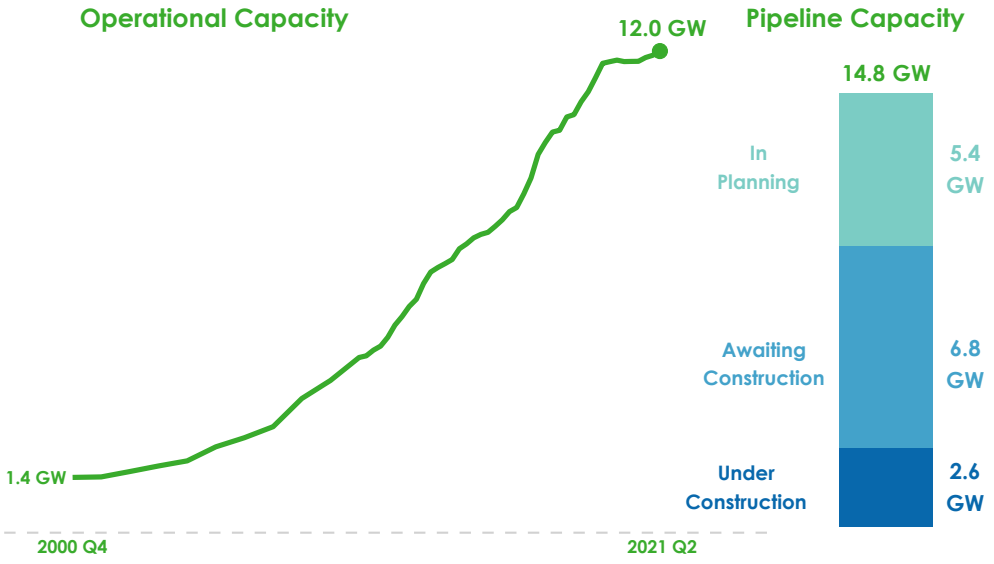


Wind and Hydro generation

First half of year, 2020 & 2021



Renewable electricity capacity, June 2021



Sources

Renewable electricity generation: https://scotland.shinyapps.io/sg-energy/?Section=RenLowCarbon&Subsection=RenElec&Chart=RenElecGen
Renewable electricity capacity: https://scotland.shinyapps.io/sg-energy/?Section=RenLowCarbon&Subsection=RenElec&Chart=RenElecCapacity
Renewable electricity pipeline: https://scotland.shinyapps.io/sg-energy/?Section=RenLowCarbon&Subsection=RenElec&Chart=RenElecPipeline