



# Energy Statistics for Scotland

## Q2 2020 Figures

September 2020

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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/sg-energy>

### Scottish Energy Strategy.

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

### Key Points:

- Scotland continued its strong **renewable electricity generation** in **2020** in **quarter 2**, with an additional **5.9 TWh** generated, similar to the same quarter in 2019.
- In the **first half** of **2020**, Scotland generated **17.5 TWh** of renewable electricity, **up 16.6%** on the same point in **2019**. This is the equivalent of almost **three quarters** of **Scotland's annual electricity consumption**.
- Future progress on renewable electricity generation may be slower as **capacity increased** by just **0.9%** from **June 2019** to **11.9GW** in **June 2020** as fewer projects have been able to access subsidies.
- Scotland's **energy consumption dropped** by **1.5%** from **2017** to **2018**, driven by a **3.5% decrease** in **industrial consumption**.
- This means that **overall energy consumption** is **13.1% lower** than **2005-2007**, and once again below the 2020 target of a reduction of 12% below the baseline.
- Due to energy consumption reduction and improvement in GVA, **energy productivity** is now **1.6% greater** than the **2015** benchmark as outlined in Scotland's Energy Strategy.
- As of **June 2020**, almost **18,300 ultra low emission vehicles** (ULEVs) were licenced in Scotland, **up 37.8%** from **June 2019**.

### Revisions:

Overall renewable energy target was revised to **21.3%** from 21.1%.

Renewable heat target was revised to **6.6%** from 6.3%.

Energy productivity was revised to **1.6%** from 0.5%.

Energy consumption was revised to **13.1%** from 12.2%

### Energy Targets:

	Latest	Target
<b>Overall renewable energy target</b> Total Scottish energy consumption from renewables	<b>21.3%</b> in 2018	<b>50%</b> by 2030
<b>Renewable electricity target</b> Gross electricity consumption from renewables	<b>90.1%</b> in 2019	<b>100%</b> by 2020
<b>Renewable heat target</b> Non-electrical heat demand from renewables	<b>6.6%</b> in 2018	<b>11%</b> by 2020
<b>Energy consumption target</b> Reduction in total energy consumption from 2005-07	<b>↓ 13.1%</b> in 2018	<b>↓ 12%</b> by 2020
<b>Energy productivity target</b> % change in gross value added achieved from the input of one gigawatt hour of energy from 2015.	<b>↑ 1.6%</b> in 2018	<b>↑ 30%</b> 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>

Scotland continued its strong renewable electricity generation in **2020 Q2**, with an additional **5.9 TWh** generated.

In the first half of 2020, Scotland generated **17.5 TWh** of renewable electricity, **up 16.6%** on the same point in 2019, and is the equivalent of almost **three quarters** of Scotland's annual electricity consumption

In the last twelve months, however, renewable electricity capacity has remained largely unchanged, **up 0.9%** from June 2019 to **11.9 GW** in June 2020.

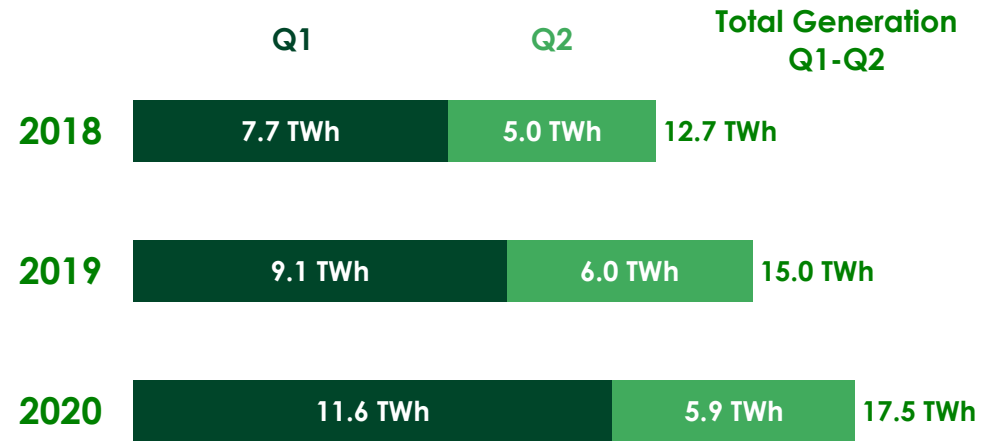
This is likely due to a lack of available subsidies for renewable generation projects specifically the closure of the Renewables Obligation and onshore wind not being allowed into Contracts for Difference

As of **June 2020**, almost **18,300** ultra low emission vehicles (ULEVs) were licenced in Scotland.

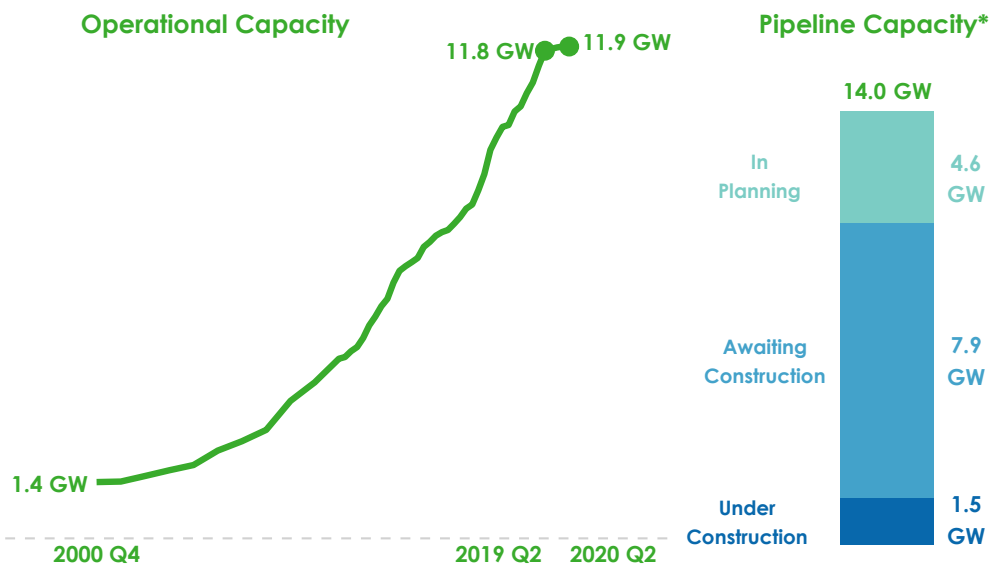
Even though ULEVs only make up less than 1% of all vehicles licenced in Scotland, growth has been rapid; compared to twelve months prior, ULEVs licenced rose by **37.8%**

### Renewable electricity generation

2019 - 2020



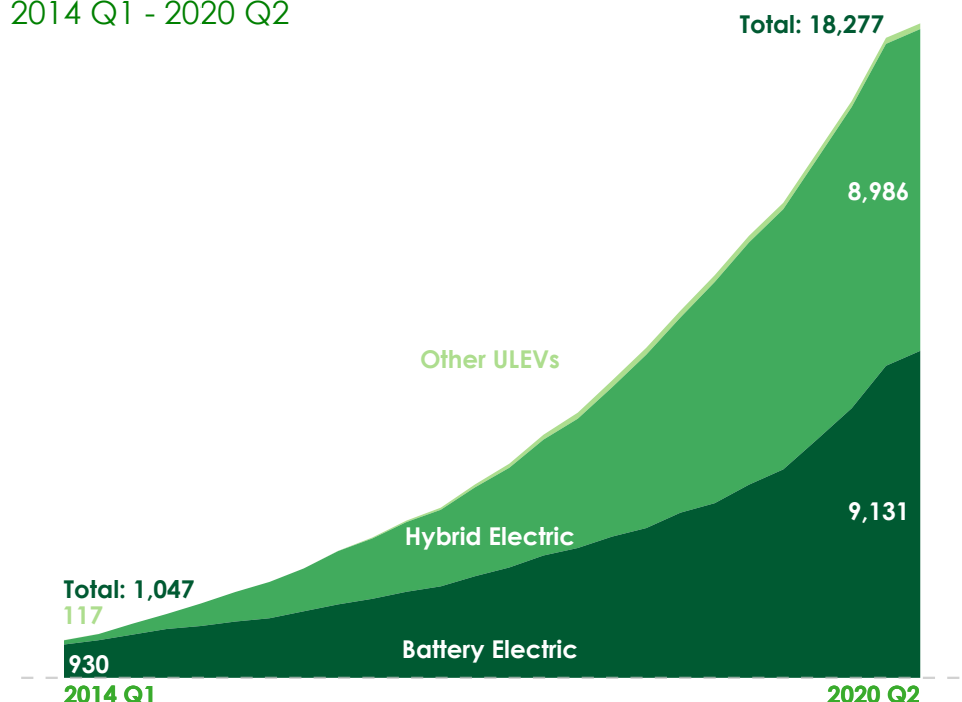
### Renewable electricity capacity, June 2020



\*In Planning corrected to 4.6 GW from 4.5 GW. Total corrected to 14.0 GW from 13.9 GW

### Ultra low emission vehicles licenced

2014 Q1 - 2020 Q2



#### 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>  
 ULEVs: <https://scotland.shinyapps.io/sg-energy/?Section=RenLowCarbon&Subsection=RenTransport&Chart=ULEVs>

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

Final 2018 data shows that consumption is **back below 12%** and is now **13.1%** lower than the baseline.

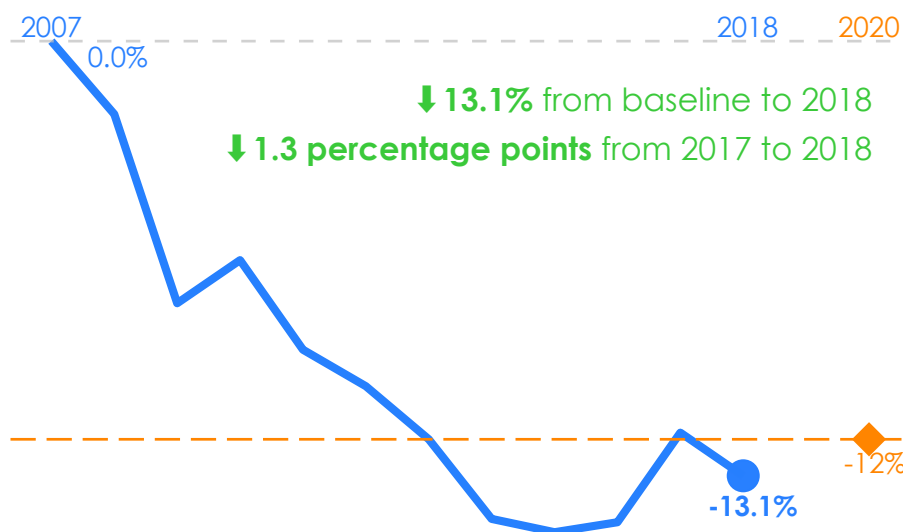
Total energy consumption in Scotland dropped by **1.5%** from 2017 to 2018, driven by a **3.5% decrease in industrial consumption**. This primarily stems from a drop in petroleum use in industrial plants in Fife.

The drop in consumption and a **1.7% increase** in gross value added (GVA) between 2017 and 2018 means that energy productivity increased by **3.2 percentage points**. It is now **1.6%** greater than the 2015 benchmark as outlined in Scotland's Energy Strategy.

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.

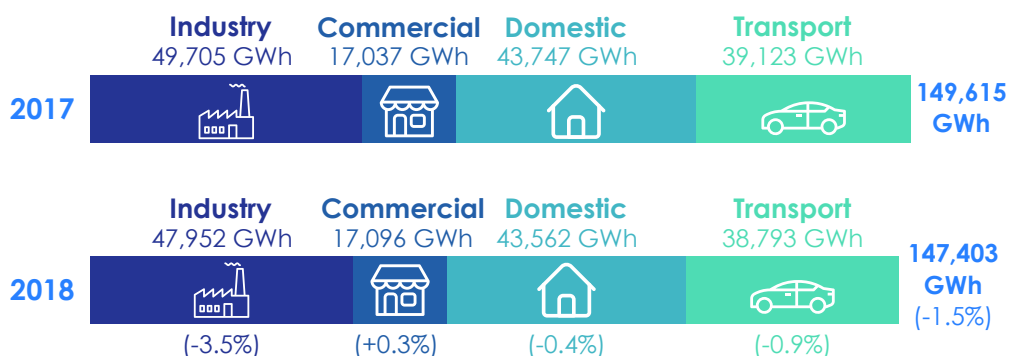
## Final energy consumption

2007 - 2018



## Energy consumption by sector

2017 - 2018



## Energy Productivity

2015 - 2018

**↑ 1.6%** from 2015 to 2018  
**↑ 3.2 percentage points** from 2017 to 2018

30%

