## Energy Statistics for Scotland Q1 2019 Figures June 2019

Published: 27<sup>th</sup> June 2019 Next update: 26<sup>th</sup> September 2019 Coverage: Scotland Frequency: Quarterly Theme: Business, Industry, Trade and Energy Issued by: Office of the Chief Economic Advisor Statistician: Paul Matthews Contact: energystatistics@gov.scot

This publication is a summary of the key statistics relating to energy in Scotland.

Accompanying this publication, updated statistics are available here:

#### Energy statistics database:

https://www2.gov.scot/Topics/ Statistics/Browse/Business/Energy/ Database

#### Interactive energy app:

https://scotland.shinyapps.io/sgscottish-energy-statistics/

## Changes/revisions from last quarter:

**Renewable energy** - provisional figure for 2017 has been revised from 20.0% to **19.8%**.

**Renewable electricity** - provisional figure for 2018 has been revised from 74.6% to **73.9%.** 

**Energy consumption** - provisional figure for 2017 has been revised from 13.9% below the baseline to **13.3%** 

**Energy productivity** - provisional 2017 figure has been revised from 0.4% above the baseline to **0.4%** *below* the baseline.

#### Key Points:

• Quarter 1 2019 is a record quarter for Scottish renewable electricity generation, with 8,877 GWh of renewable electricity generated, almost 1,300 GWh up on Q1 2018.

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• Generation via offshore wind, onshore wind and hydro are all higher compared to Q1 2018.

• The continued growth of Scotland's renewable electricity **capacity** underlies this generation; capacity rose from **10.4 GW** in **March 2018** to **11.3 GW** in **March 2019**. A further **12.9 GW** of capacity is in the **pipeline**.

• Perhaps a consequence of the high renewable electricity generation this quarter, Scotland's **net electricity exports** is at its highest since Q4 2017, with a net **4,543 GWh** exported.

• Total final **energy consumption** in Scotland for **2017** is **13.3% lower** than the **2005-7 baseline** as per the latest provisional estimate. This is still within the target to reduce consumption by 12% by 2020, however, energy consumption has **risen** to its **highest level since** Scotland first met the target in **2013**. This is driven by an estimated **2.4% increase** in energy consumption between **2016** and **2017**.

Energy Targets:		Latest	Target
Overall renewable energy target Total Scottish energy consumption from renewa	<b>PROVISIONAL</b> Ibles	<b>19.8%</b> in 2017	<b>50%</b> by 2030
<b>Renewable electricity target</b> Gross electricity consumption from renewables	PROVISIONAL	<b>73.9%</b> in 2018	<b>100%</b> by 2020
Renewable heat target Non-electrical heat demand from renewables	PROVISIONAL	<b>5.9%</b> in 2017	<b>11%</b> by 2020
Energy consumption target Reduction in total energy consumption from 200	<b>provisional</b> ( )5-07	<b>13.3%</b> in 2017	<b>12%</b> by 2020
Energy productivity target % change in gross value added achieved from input of one gigawatt hour of energy from 2015.		<b>↓ 0.4%</b> in 2017	<b>1 30%</b> in 2030

Links to the original BEIS sources can be found in the Energy Statistics Database, references to the data in the ESD have been provided Energy Targets - Energy Statistics Database: 'Renewable energy target'

### Energy Statistics for Scotland - Q1 2019 Figures Latest data

The first quarter of 2019 is a record quarter for renewable electricity generation in Scotland. 16.9% more renewable electricity was generated in quarter 1 2019 compared to the first quarter of 2018.

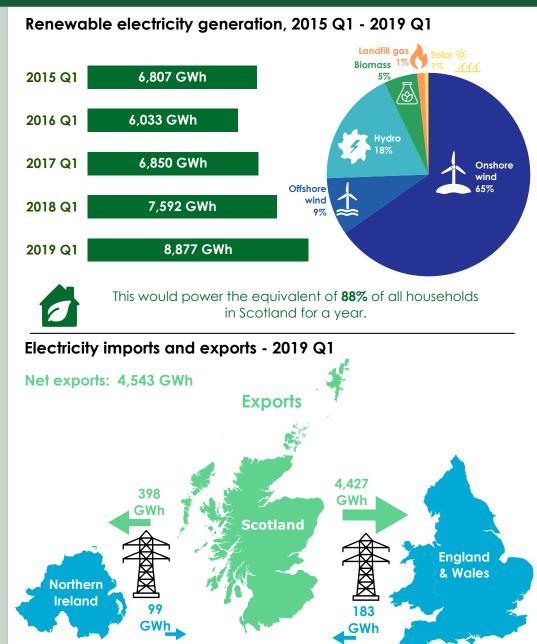
Two-thirds of all renewable generation comes from onshore wind.

Scotland's net electricity exports is at its highest since the last quarter of 2017, with a net 4,543 GWh exported.

This is the equivalent of powering more than 1.1 million households for a year.

Scotland's renewable electricity capacity rose from 10.4 GW in March 2018 to 11.3 GW in March 2019.

A further 12.9 GW is either under construction, awaiting construction of in planning.



**Imports** 

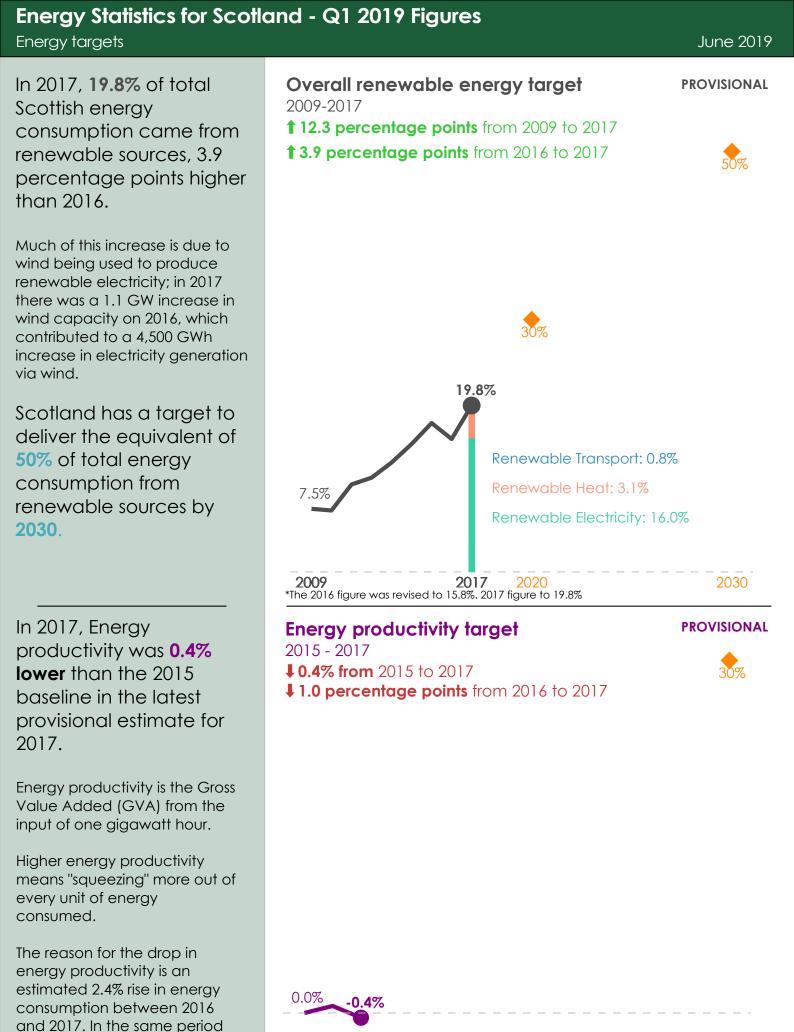
#### Renewable electricity capacity, 2018 Q1 vs 2019 Q1

		Operational		Pipeline		
		As at 2018 Q1	As at 2019 Q1	As at 2018 Q1	As at 2019 Q1	
	Wind Onshore	7,751 MW	8,091 MW	5,796 MW	7,355 MW	
₹	Wind Offshore	246 MW	752 MW	3,986 MW	4,509 MW	
-	Hydro	1,662 MW	1,653 MW	28 MW	50 MW	
Ø	Other	776 MW	835 MW	1,106 MW	1,030 MW	

Renewable Electricity - Energy Statistics Database: 'Renewable elec by fuel'

Renewable Electricity Generation by Source - Energy Statistics Database: "Renewable electricity Generation by Source - Energy Statistics Database: "Renewable elect planning"

Net Electricity Exports - Energy Statistics Database: 'Elec imports & exports'



2015 2017 \*The 2016 figure was revised to 0.6%. 2017 figure revised to -0.4%

2030

GVA increased by 1.4%.

## Energy Statistics for Scotland - Q1 2019 Figures

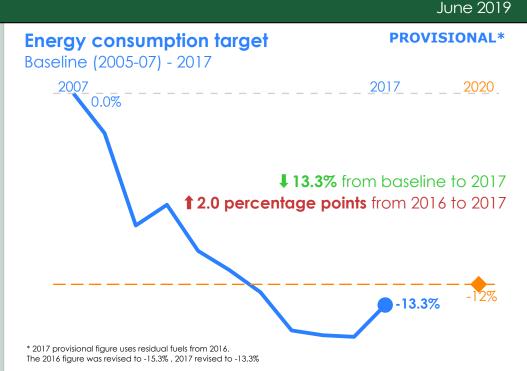
Energy targets

In 2017, total final energy consumption was 13.3% lower than the 2005-07 baseline.

This is still within the target to reduce consumption by 12% by 2020, however, energy consumption has increased to its highest level since 2013. This is driven by an increase in energy consumption across the board; gas consumption has risen by 3.8% from 2016 to 2017, road fuel consumption has increased by 3.0% and electricity consumption by 2.4%

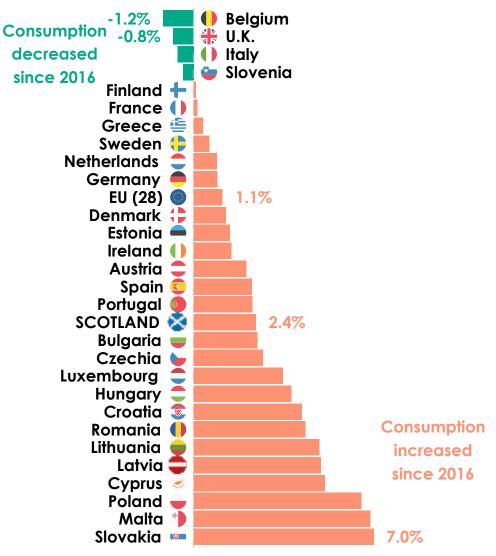
The increase in energy consumption is witnessed across Europe.

According to Eurostat 24 out of the 28 EU countries increased their consumption from 2016 to 2017.



## Change in final energy consumption across EU countries

2016 - 2017



### **Energy Statistics for Scotland - Q1 2019 Figures** Energy targets

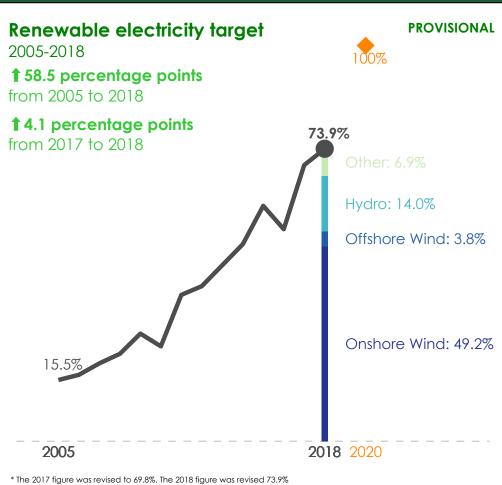
**PROVISIONAL** 

In 2018, an estimated 73.9% of gross electricity consumption came from renewable sources, up 4.1 percentage points from 2017.

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

In 2017, **5.9%** of heat demand in Scotland was generated from renewable sources

Scotland has a target to deliver the equivalent of 11% of heat demand from renewable sources by 2020.



# Renewable heat target 2008 - 2017

**† 5.0 percentage points** from 2008 to 2017

**1.2 percentage points** from 2016 to 2017



Sources