

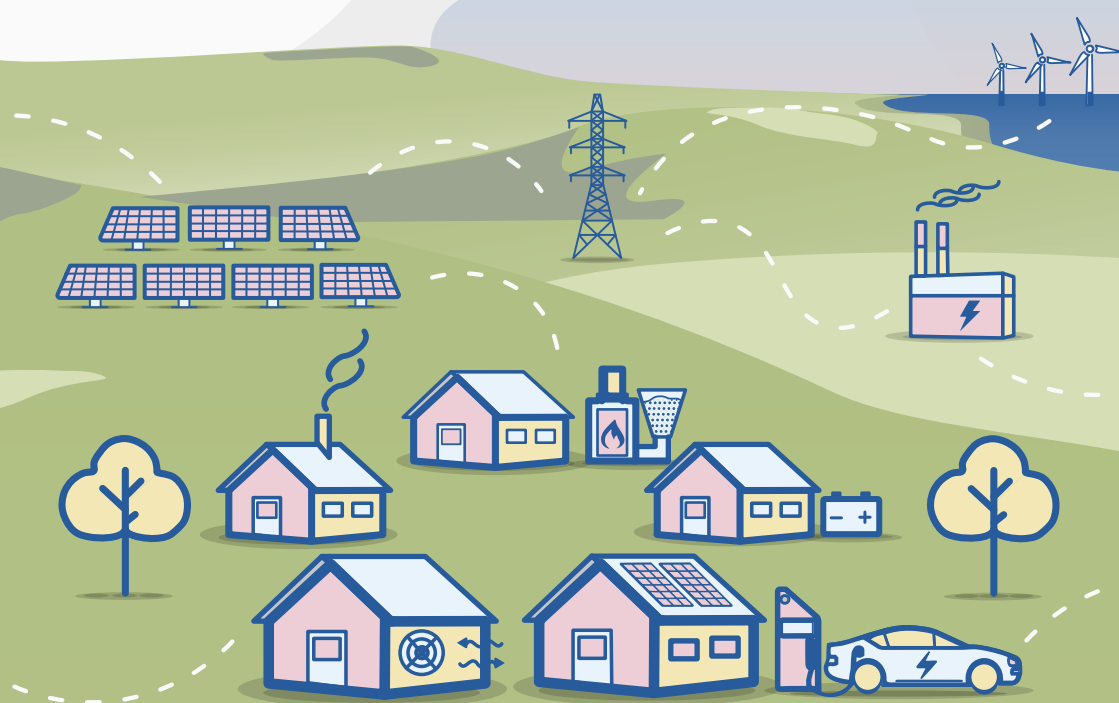
# Energy Generation in Wales

**2018**

*in 5 minutes*



Llywodraeth Cymru  
Welsh Government



A graphical summary of the  
Energy Generation in Wales 2018 report

Full report available at [gov.wales](http://gov.wales)

regen   
transforming energy

# Introduction

The Energy Generation in Wales 2018 report sets out the current energy generation capacity of Wales, and analyses how it has changed over time.

This accompanying document summarises:

- Progress towards renewable energy targets
- Renewable energy generation in Wales
- Local authority area progress
- Local ownership stories

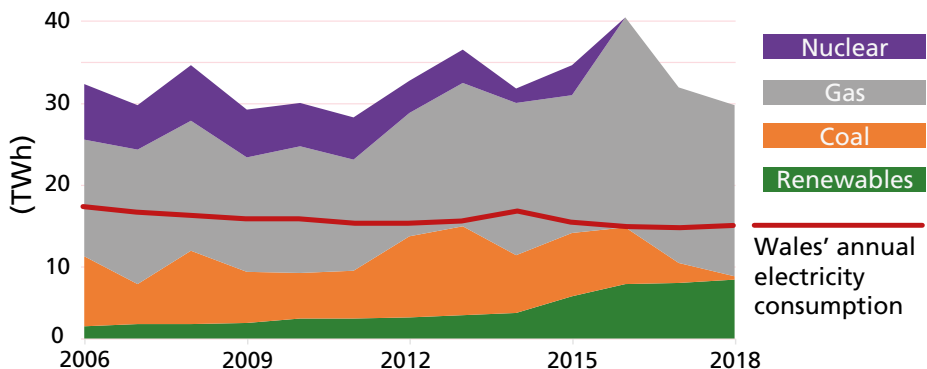
*Reducing our reliance on fossil fuels and continuing to develop and support renewable energy, with local ownership, will help us achieve our low carbon vision and maximise the value to Wales.*

**Lesley Griffiths**

Minister for Environment, Energy and Rural Affairs

## Welsh electricity generation and consumption trends

Since 2006, energy consumption has fallen 15%. Electricity generation from nuclear and coal has reduced to almost zero, whereas natural gas and renewable generation has increased.



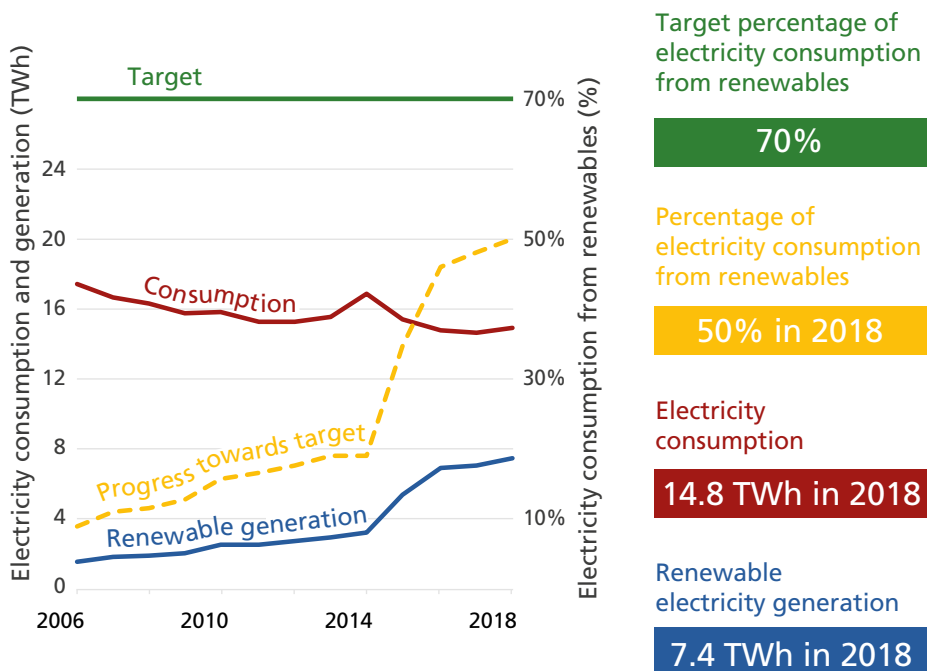
# Progress towards target

Renewable energy sources generated enough electricity to meet half of Wales' needs in 2018.

## Renewable electricity target



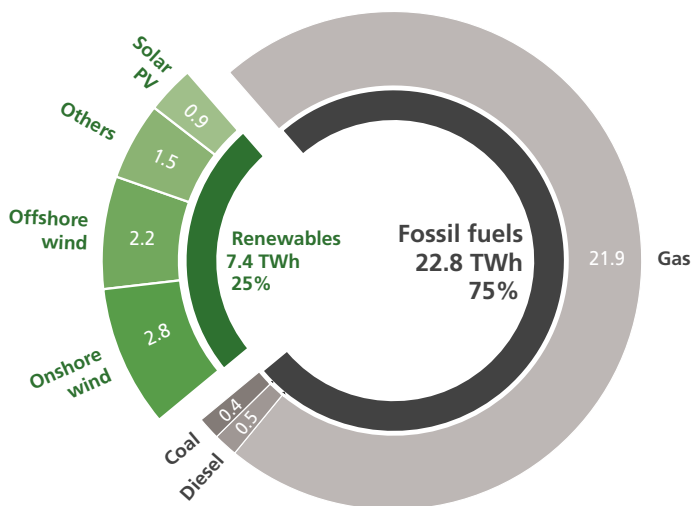
## Generation and consumption trends



# Electricity generation in Wales

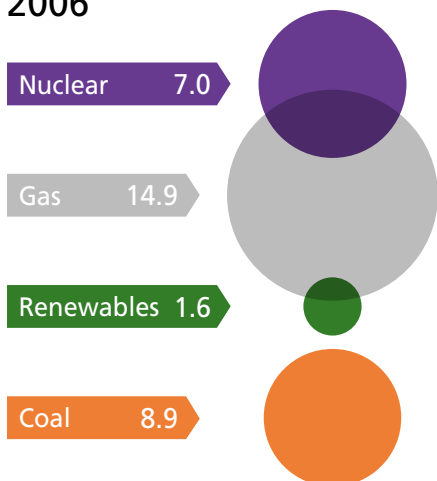
Wales is a net exporter of electricity, generating around twice as much electricity as it consumes.

## Wales' electricity generation mix



## Electricity generation over time

2006



2018



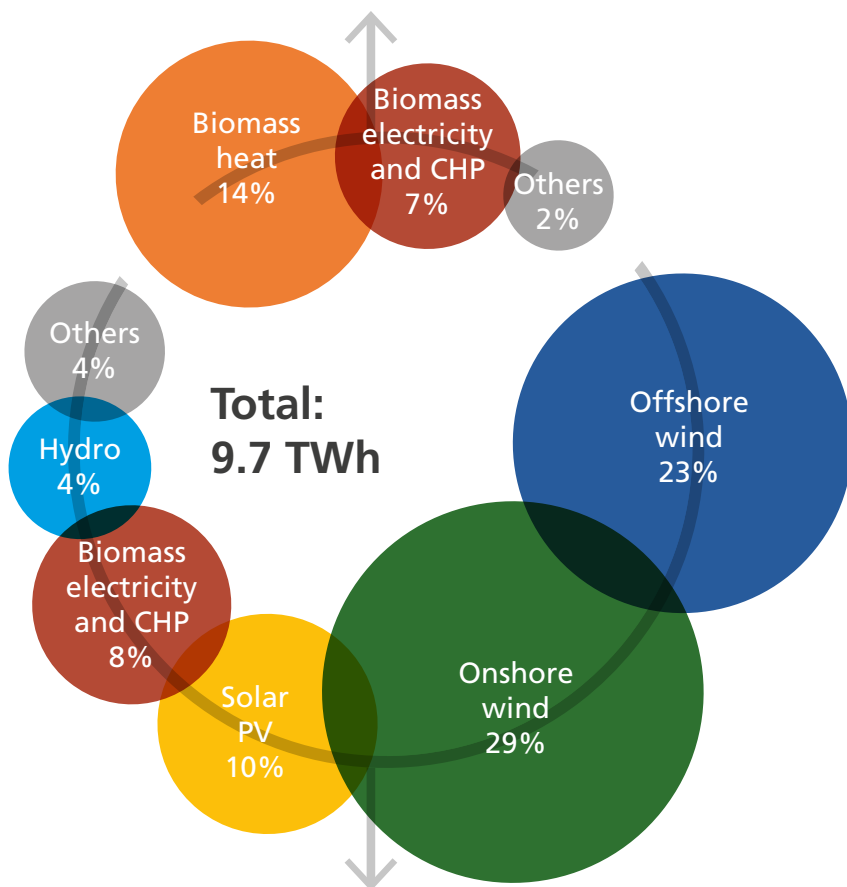
# Renewable energy

Wind power made up over half of all renewable energy generation in 2018.

## Renewable energy generation mix



**Renewable heat: 2.3 TWh**  
**23% of total renewable energy**

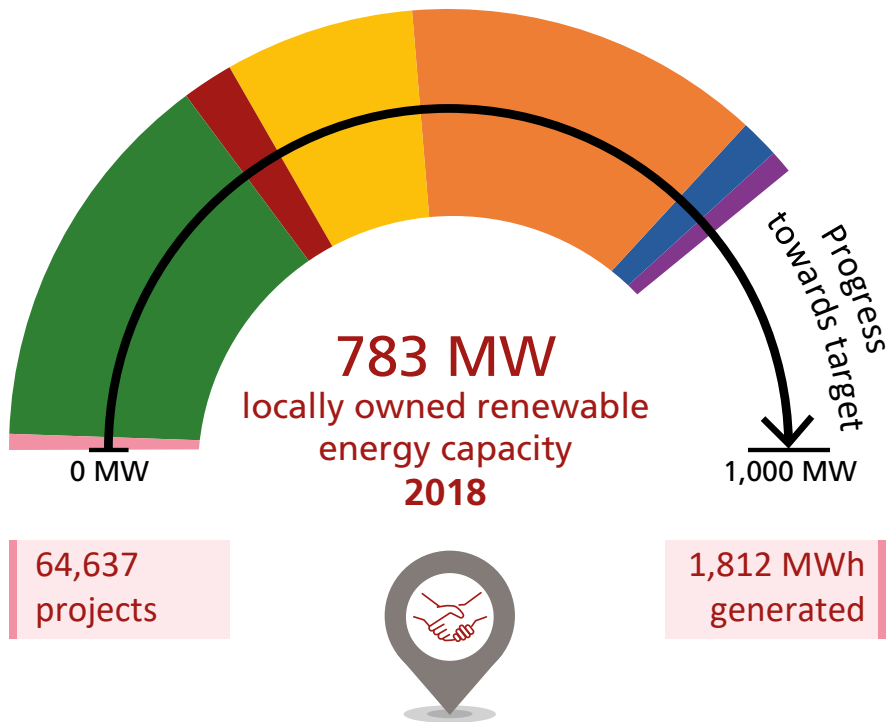


**Renewable electricity: 7.4 TWh**  
**77% of total renewable energy**

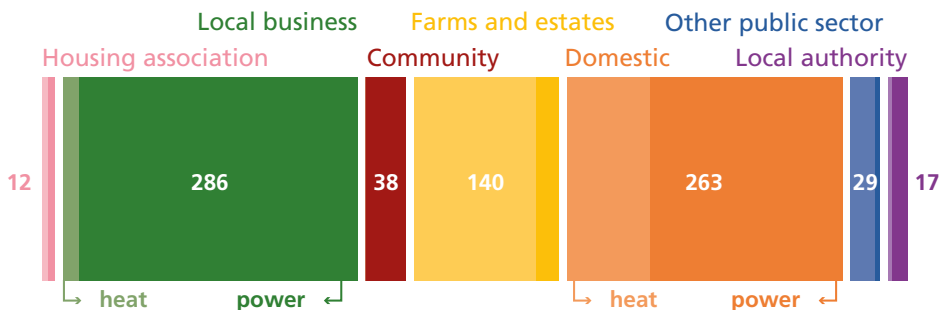
# Local ownership target

The Welsh Government has set a target for 1 GW (1,000 MW) of renewable energy capacity to be locally owned by 2030.

## Progress towards target so far

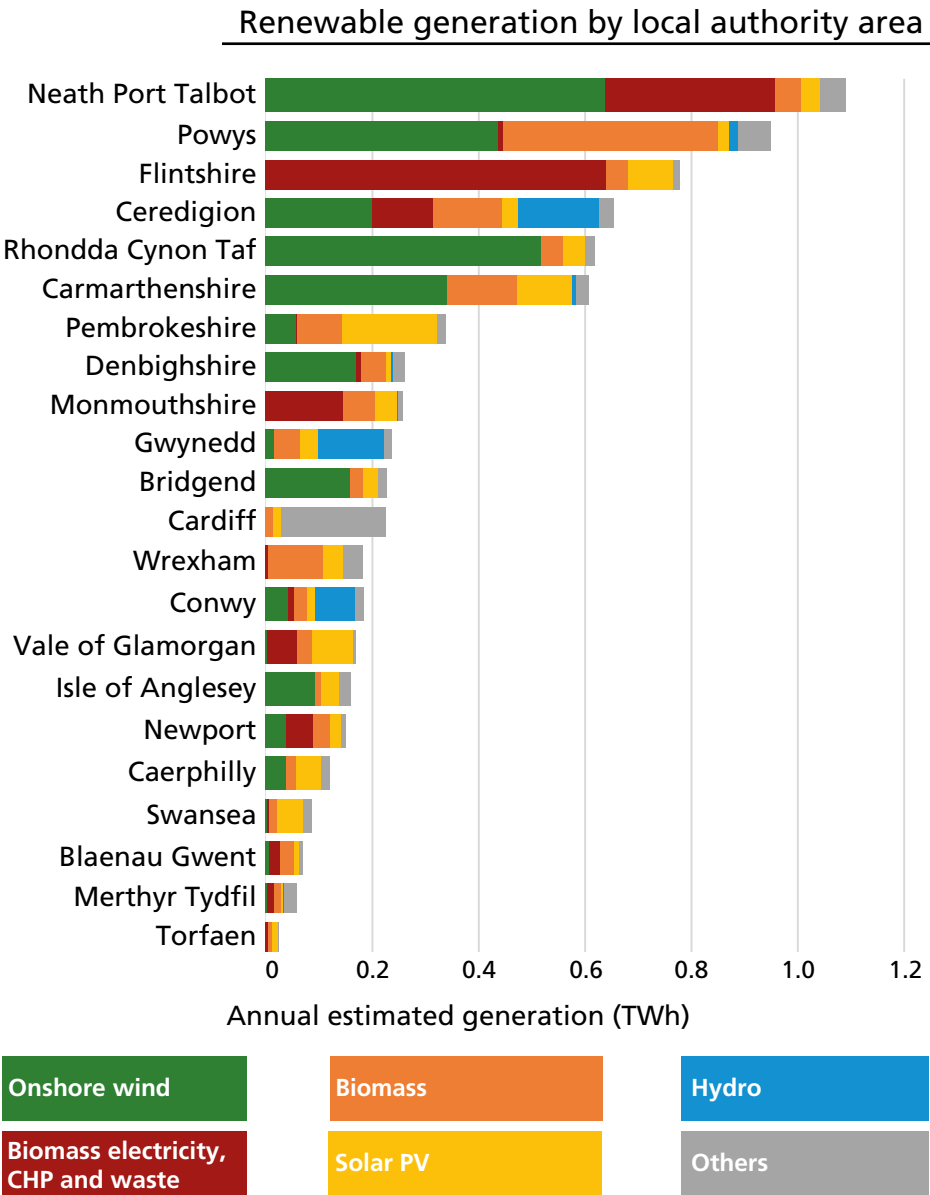


## Local ownership by capacity (MW)



# Local authority area progress

There are over 68,700 renewable heat and electricity projects installed across Wales.



# Local stories

## Brenig wind farm

This 16-turbine, 38 MW wind farm was completed in 2018, with a £4 million fund for the local rural community.

## Brechfa Forest West wind farm

The community investment fund from this 55 MW wind farm is expected to be worth up to £11 million over 25 years.

## Low carbon heat

This 173 kW water-source heat pump was the largest heat pump installed in Wales in 2018.

## 'Battery @ PYC'

At 22 MW, this is the UK's largest battery co-located with an onshore wind farm.

## Rhiwfelin fach farm

This turbine supplies 10% of the Royal Mint's electricity demand, and is painted to resemble a giant daffodil.

## Radyr Weir hydro scheme

This scheme uses the current of the river Taff to power over 500 homes a year, and is owned by Cardiff Council.

The Energy Generation in Wales 2018 full report is available at [gov.wales](http://gov.wales)

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