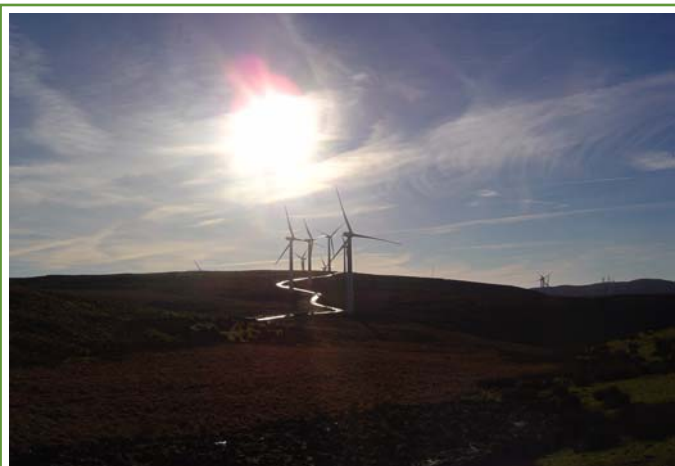


## Becoming a Sustainable Region

*“Wales once led the world in carbon-based energy. Our goal now is to do the same for low-carbon energy. This is a challenging but exciting and vital agenda”* Welsh Government Cabinet March 2010.



Wind Turbines at Cefn Croes Wind Farm, Wales  
 (Picture taken by Sally Davidson)

### The Welsh Government Ambition:

1. To maximize energy savings and energy efficiency in order to make producing the majority of the energy we need from low carbon sources more feasible and less costly.
2. To meet our energy needs, securely, from low carbon sources, on a centralised and localised basis.
3. Ensure this transition maximizes economic renewal opportunities for practical jobs and skills, strengthens and engages our research sectors, promotes personal and community engagement and helps to tackle deprivation and improve quality of life.

## Energy in Wales, UK

Analysis of the electricity generation in Wales (as at March 2010) for units of 10 MW installed capacity shows that:

- Wales produces considerably more electricity than it consumes
- There is 2080 MW of installed capacity of pumped storage and this represents the whole of the UK capacity
- The current generation capacity is dominated by coal and gas and is concentrated in the north and south of the country
- There is one nuclear power station in the far north of the country (on the island of Anglesey) but it is likely to be nearing the end of its generating life. There is one other station that is being de-commissioned.
- New large scale generation capacity is under construction for more gas with the largest project being at Pembroke where it would use liquefied gas imported through the Milford Haven facility.
- A large electricity only facility is consented at Port Talbot that would burn imported biomass.
- There are a number of on and offshore wind-power installations and some hydro.



**ENNEREG - Regions paving the way for a Sustainable Energy Europe** is a European Project supported by the **Intelligent Energy - Europe programme**. The project aims to establish and inspire EU Regions to take up the challenges of fulfilling the EU 20-20-20 climate and energy targets by producing regional **Sustainable Energy Action Plans (SEAPs)** and initiating **Sustainable Energy Projects (SEPs)**.

The experience gained by the **12 ENNEREG Pioneer Regions** is being shared with other regions throughout Europe via one-to-one twinning activities, events and the **Regions 2020 Network**.

Find out more at [www.regions2020.eu](http://www.regions2020.eu)

## Sustainable Energy Action in Wales, UK

The Policy Statement “A low Carbon Revolution” sets out the ambitions of the Welsh Government’s vision for a low carbon economy in Wales:

1. Action on energy efficiency – a step-change in the energy efficiency performance or all housing stock in Wales. Planned activities include: a revised Home Energy Efficiency scheme which will focus on hard to heat homes and those most at risk from fuel poverty (tackling 3000 properties per annum), ARBED – an investment programme targeting the Regeneration areas in Wales (reaching over 10,000 homes), roll-out of smart meters to all properties in Wales and increasing building standards.
2. Action for a significant proportion of our renewable energy to be generated locally or domestically. Planned activities include: Ynni’r Fro - a programme to fund and support community scale renewable energy generation projects, reviews of the barriers including planning, grid connection and providing support through the renewable heat incentive and feed-in-tariff.
3. Action to support large scale renewable energy production. Goals include:
  - o Offshore wind – 15kWh/d/p capacity by 2015
  - o Tidal Stream and Wave – 8kWh/d/p by 2025
  - o Onshore wind – 4.5KWh/d/p installed capacity by 2015
  - o Hydro & Geothermal – small scale schemes up to 1 kWh/d/p
  - o Biomass and Waste – 6kWh/d/p by 2020
4. Actions to include: development work, providing support and multi-agency collaboration, provision of data, breaking down barriers, funding support.
5. Action to capture the benefits – to maximize the short and long-term benefits for Wales’ economy and society. Actions to include: learning programmes, capturing local jobs, developing local supply chains, improved infrastructure, linking investment to communities and tackling the roots of fuel poverty.

### Facts and Figures

**Size:** Wales is around 170 miles (256 km) long and 60 miles (96 km) wide and covers an area of 8023m<sup>2</sup> (20,780km<sup>2</sup>).

**Inhabitants:** 2,999,319 (StatsWales 2009)

**Location:** Part of Great Britain and the United Kingdom. Situated to the West of England.

**Stakeholders:** Welsh Government, Counties – North Wales (Anglesey, Gwynedd, Conwy, Denbighshire, Flintshire, Wrexham), Mid-Wales (Ceredigion, Powys), West Wales (Carmarthenshire and Pembrokeshire) and South Wales (Monmouthshire, Newport, Cardiff, Vale of Glamorgan, Caerphilly, Torfaen, Rhonda Cynon Taff, Merthyr Tydfil, Blaenau Gwent, Bridgend, Neath & Port Talbot, Swansea).

**Main Towns & Cities:** Cardiff (Capital), Swansea, Carmarthen, Aberystwyth, Caernarfon, Bangor, Wrexham



Abergwili, Wales. Picture taken by Mick Richards

### Twinning and Replication

Replication regions receive direct assistance via a one-to-one partnerships with an ENNEREG Pioneer Region. They learn from and share experiences of other ENNEREG Twins and Pioneers. Wales is now twinned with the Mid West Region of Ireland, and attended a workshop hosted by the Mid West Regional Authority. Andy Bull gave a presentation outlining the work of ENNEREG, along with many other sustainable energy projects running throughout Wales. The twinning region is now undertaking steps to develop a Sustainable Energy Action Plan.

Find out more about ENNEREG’s activities in **Wales, UK** on the Regions 202020 website at: [www.regions202020.eu/cymru](http://www.regions202020.eu/cymru)

or contact the ENNEREG partner for Wales: **SWEA - Severn Wye Energy Agency**

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