

DUMFRIES AND GALLOWAY

Renewable Energy Action Plan



Current Statistics

Description	
Gross Value Added (GVA)	£20 million per annum
Jobs in Renewables Sector	334 jobs
Existing Provision	
No. of Solar Photovoltaic (PV) installations up to 4 kWp	1918 (6176 kWp)
No. of Solar PV installations between 4 and 100kWp	88 (2005 kWp)
No. of Micro Hydro installations	23 (380 kWp)
No. of Micro Combined Heat and Power installations	29 (2kWp)
Small Scale Wind Onshore installations	204 (3339 kWp)
Offshore installations	1 site (180 MW)
Onshore Wind installations (Operational)	10 sites (355.53 MW)
Onshore Wind installations (Under construction)	3 sites (217 MW)
Onshore Wind installations (Consented)	12 Sites (617.70MW)
Hydro Installations	6 sites (106 MW)
Large scale Bio mass	1 site (44 MW)

Stevens Croft Power Station (Image courtesy of EON)

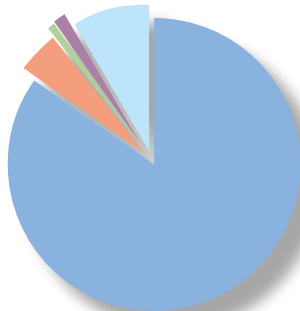


Key Facts and Figures






kWp = Kilowatt Peak MW = Mega Watt

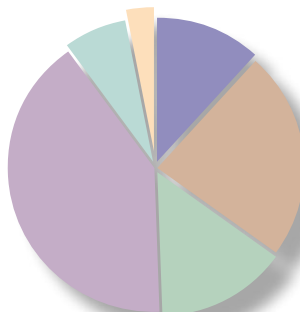
Source: EKOS Economic Benefits from Renewable Energy: Dumfries and Galloway

Source: Renewables UK: www.renewableuk.com/en/renewable-energy/wind-energy/uk-wind-energy-database/index.cfm









Number of Small Scale Technologies Installed Renewable Technology in Dumfries and Galloway

-  Solar PV installations up to 4 kWp
-  Solar PV installations between 4 and 100kWp
-  Micro Hydro installations
-  Micro CHP installations
-  Small Scale Wind Onshore installations



Existing Large Renewable Technologies (per MW)

-  Offshore installations
-  Onshore Wind installations (Operational)
-  Onshore Wind installations (Under construction)
-  Onshore Wind installations (Consented)
-  Hydro installations
-  Large scale Bio mass

The Dumfries and Galloway Renewable Energy Partnership

Dumfries and Galloway Renewable Energy Partnership (DG-REP) was formed in March 2013 and is made up of public and private sector organisations from across the region that are involved or interested in renewable energy and energy efficiency.

The key role and remit for DG-REP is to provide a central point of contact and coordination of activities for all those with an interest in the development of all aspects of the renewable energy sector in the region.

Vision

The vision is to secure the maximum economic and employment benefits from the development of the renewables energy sector for the benefit of the region and its communities.

Key Targets to be met by 2020 in Dumfries and Galloway

- 10% Increase in Gross value Added (GVA)
- 1,000 jobs created or safeguarded in the Renewable Sector

Dumfries and Galloway Renewable Energy Action Plan

Themes



Fitting Solar Panels

The Dumfries and Galloway Renewable Energy Action Plan, which provides a coordinating framework for action, is centred round the three themes of:



Background

The Scottish Government has set challenging and ambitious targets for generating energy from renewable sources, including 100% electricity demand equivalent from renewables by 2020. This policy is seen as reflecting the wider global issues of climate change and sustainable development and the potential economic growth opportunities across Scotland.

It is already recognised that renewable energy is a major contributor to the national economy and is responsible for supporting over 11,000 jobs, with crucially, many of these located in rural areas. It is also predicted that the sector will create many more jobs in the future as Scotland capitalises on its natural strengths and competitive advantages in the sector.

At a regional level Dumfries and Galloway is already active in many areas of the sector and the potential is recognised in local policy frameworks including the Regional Economic Strategy. It has also been identified in the National Renewables Infrastructure Plan. The region is already active, or has the potential, in many areas within the renewables sector including tidal and marine, offshore and on-shore wind, and bio mass.

DG-REP, renewable energy covers all sources of non-fossil fuel power including: wind (onshore and offshore), water (hydro, wave, tidal), solar (thermal photovoltaic), anaerobic digestion, geothermal and bio mass. It also covers all sizes of development from large scale installations to small scale micro generation. In this context DG-REP aims to be wide ranging and inclusive.

Scotland, due to its natural topography, possesses a significant proportion of the UK potential for renewable energy generation in the form of hydro, wind, tidal, wave and biomass technologies. The target to generate the equivalent of 100% of Scotland's own electricity demand from renewable sources by 2020 equates to approximately 16 gigawatt of installed capacity.

Source: SP Distribution, November 2012, Distribution Long Term Development Statement for the years 2012/13 to 2016/17



Glenlochard Dam

Key Priorities

The Key Priorities and actions that have been identified under each of these key themes are:

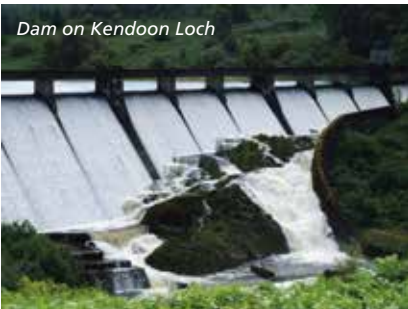
Communication

Priorities	Actions
<ul style="list-style-type: none">• provision of information and coordination of activity• mapping and promoting business capacity• marketing opportunities through the use of supplier events• provision of local supply sourcing services/supplier database	<ul style="list-style-type: none">• website for the provision of information and marketing opportunities• up skilling and training opportunities• business directory• coordinated supplier events

Capacity Building

Priorities	Actions
<ul style="list-style-type: none">• supporting capacity building on the supply side, including through referrals• reviewing and promoting opportunities for new skills development activity	<ul style="list-style-type: none">• business referral to relevant agencies• Supplier Development Training sessions• single point of contact set up through the website• provision of technical information / signposting to support micro generation activity• accessing funds for renewable energy projects

Dam on Kendoon Loch



Earlstoun Dam, New Galloway



Partnerships

Priorities	Actions
<ul style="list-style-type: none">• developing new networks within the industry• researching future opportunities• providing a focus for economic / skills development support for community benefits income• driving policies and initiatives that support the sector	<ul style="list-style-type: none">• DG-REP has made a commitment to meet on a quarterly basis• the role of the group is to focus on providing strategic leadership, oversight and support to the wide range of public and private sector organisations currently active in, or with a responsibility for, the sector• developing the strategic framework and agreeing the priorities within an Action Plan format• The Action Plan is to be reviewed by the Partnership on an annual basis to reflect progress and wider external changes



Local Context of Renewable Energy

The following table provides current and anticipated renewable energy provision in Dumfries and Galloway.

Source	Current	Future
Onshore wind	Very active in relation to onshore wind with 11 projects currently operational and 13 under, or awaiting, construction (excluding micro generation projects).	Pipeline demand still strong but may be more difficult to achieve consents for large schemes. Micro schemes likely to continue to develop.
Offshore wind	One offshore wind farm.	Location identified for medium/ long term in less contentious location. No short term opportunities.
Wave/tidal	No current projects included in Government proposals. Feasibility study for Solway Energy Gateway continues.	Will depend on feasibility/ test studies. Solway recognised as potential future location.
Biomass	D&G has largest plant in UK. Some small local schemes.	No work being undertaken for major new development. Small scale projects likely to continue.
Hydro	One major hydro scheme in the region (Galloway Hydroelectric scheme) and around 20 micro schemes.	Unlikely to be major new schemes. Micro projects however are likely to be developed.
Solar PV	D&G has the highest installed capacity and number of solar/PV installations in Scotland, although it is largely focused on domestic use.	Likely to continue with small scale activity only.

Onshore Windfarm Timeline

A wind farm has an average life expectancy of 25 years.



Members of the Dumfries and Galloway Renewable Partnership are:

Banks Renewables	Natural Power
Business Gateway	Scottish Enterprise
Crichton Carbon Centre	Scottish Power Renewables
Dumfries & Galloway Chamber of Commerce	Skills Development Scotland
Dumfries & Galloway College	Solway Energy Gate
Dumfries & Galloway Council	South West Hub
Federation of Small Business	Vattenfall
Infinergy Ltd	Wigtown Chamber of Commerce
Jobcentre Plus	Solarae

Robin Rigg Offshore Wind Farm



The Action Plan was approved by the Economy, Environment and Infrastructure Committee of Dumfries and Galloway Council on 14 January 2014.

All Information correct as at November 2013.

Source: RenewableUK and EKOS Ltd: Economic Benefits from Renewable Energy, February 2013



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