

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	2145 (6626 kWp)
No. of Solar PV installations between 4 and 100kWp	98 (2588 kWp)
No. of Micro Hydro installations	40 (839 kWp)
No. of Micro Combined Heat and Power installations	29 (2kWp)
Small Scale Onshore Wind installations	1221 (4932 kWp)
Offshore installations	1 site (180 MW)
Onshore Wind installations (Operational)	12 sites (327.03 MW)
Onshore Wind installations (Under construction)	2 sites (94 MW)
Onshore Wind installations (Consented)	20 Sites (592.26 MW) (4 sites only 1 turbine)
Hydro installations	6 sites (106 MW)
Large scale Bio mass	1 site (44 MW)

Stevens Croft Power Station (Image courtesy of EON)

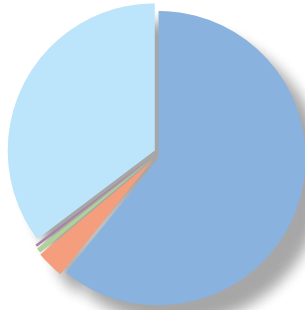


## Key Facts and Figures






kWp = Kilowatt Peak    MW = Mega Watt

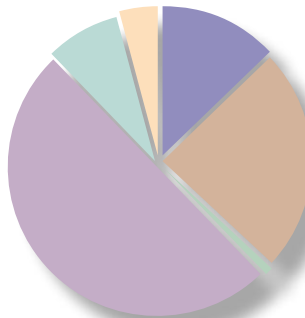
Source: EKOS Economic Benefits from Renewable Energy: Dumfries and Galloway

Source: Renewables UK: [www.renewableuk.com/en/renewable-energy/wind-energy/uk-wind-energy-database/index.cfm](http://www.renewableuk.com/en/renewable-energy/wind-energy/uk-wind-energy-database/index.cfm)









### Number of Small Scale Technologies Installed 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 Onshore Wind 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

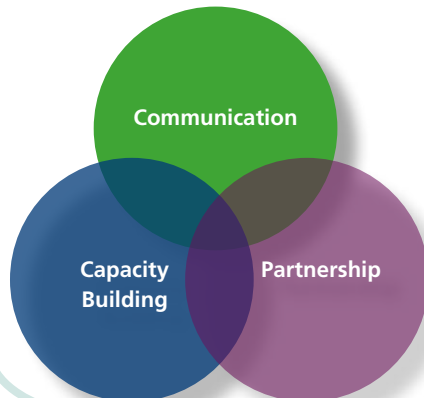
- 10% Increase in Gross Value Added (GVA)
- 1,000 jobs created or safeguarded in the Renewables Sector

## Dumfries and Galloway Renewable Energy Action Plan



## Themes

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's 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*

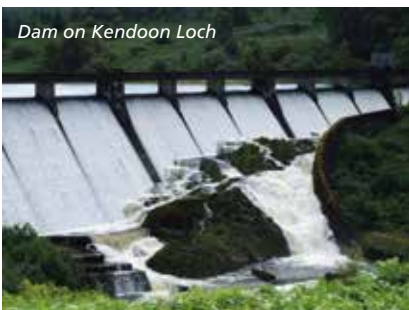


## Key Priorities

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

### Communication

Priorities	Actions	Achievements 2013/14
<ul style="list-style-type: none"> <li>• provision of information and coordination of activity</li> <li>• mapping and promoting business capacity</li> <li>• marketing opportunities through the use of supplier events</li> <li>• provision of local supply sourcing services/supplier database</li> </ul>	<ul style="list-style-type: none"> <li>• website for the provision of information and marketing opportunities</li> <li>• up skilling and training opportunities</li> <li>• business directory</li> <li>• coordinated supplier events</li> </ul>	<ul style="list-style-type: none"> <li>• Website live June 2014</li> <li>• Twitter live July 2014</li> <li>• Facebook live July 2014</li> <li>• Ongoing</li> <li>• Located on website - live June 2014</li> <li>• Domestic Renewables Exhibition - 22 February 2014</li> <li>• 5 Meet the Buyer Events               <ul style="list-style-type: none"> <li>- Community Wind Power - 25 February 2014 (Sanquhar)</li> <li>- Community Wind Power - 1 April 2014 (Wigtown)</li> <li>- Community Wind Power - 2 April 2014 (Dumfries)</li> <li>- Vattenfall - 1 May 2014 (Dumfries)</li> <li>- Banks Renewables - 22 May 2014 (Gatehouse of Fleet)</li> <li>- Collaborative event - 10 September 2014 (Dumfries)</li> </ul> </li> </ul>



*Dam on Kendoon Loch*



*Earlstoun Dam, New Galloway*

## Capacity Building

Priorities	Actions	Achievements 2013/14
<ul style="list-style-type: none"> <li>• supporting capacity building on the supply side, including referrals</li> <li>• reviewing and promoting opportunities for new skills development activity</li> </ul>	<ul style="list-style-type: none"> <li>• business referral to relevant agencies</li> <li>• Supplier Development Training sessions</li> <li>• single point of contact set up through the website</li> <li>• provision of technical information / signposting to support micro generation activity</li> <li>• accessing funds for renewable energy projects</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing</li> <li>• 2 Supplier Development Training sessions               <ul style="list-style-type: none"> <li>- 20 May 2014 - Stranraer</li> <li>- 29 May 2014 - Dumfries</li> </ul> </li> <li>• Website live June 2014</li> </ul>

## Partnerships

Priorities	Actions	Achievements 2013/14
<ul style="list-style-type: none"> <li>• developing new networks within the industry</li> <li>• researching future opportunities</li> <li>• providing a focus for economic / skills development support for community benefits income</li> <li>• driving policies and initiatives that support the sector</li> </ul>	<ul style="list-style-type: none"> <li>• DG-REP has made a commitment to meet on a quarterly basis</li> <li>• 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</li> <li>• developing the strategic framework and agreeing the priorities within an Action Plan format</li> <li>• The Action Plan is to be reviewed by the Partnership on an annual basis to reflect progress and wider external changes</li> </ul>	<ul style="list-style-type: none"> <li>• DG Renewables Partnership Meetings               <ul style="list-style-type: none"> <li>- 29 October 2013</li> <li>- 25 February 2014</li> </ul> </li> <li>• Launch of Action Plan 25 February 2014</li> <li>• Action plan to be updated annually</li> <li>• Action plan to be updated annually</li> </ul>



## 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	Infinergy Ltd
Burcote Wind	Jobcentre Plus
Business Gateway	Natural Power
Crichton Carbon Centre	PNE Wind UK Limited
Community Energy Scotland	Scottish Enterprise
Community Windpower	Scottish Power Renewables
Dumfries & Galloway Chamber of Commerce	Skills Development Scotland
Dumfries & Galloway College	Solarae
Dumfries & Galloway Council	Solway Energy Gate
Federation of Small Businesses	South West Hub
Home Energy Scotland	Vattenfall
Home Renewables 	Wigtown Chamber of Commerce

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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**If you would like further information please contact:**

Shelley Bell  
*Economic Development Officer*  
Planning and Environment Services  
Militia House  
English Street  
Dumfries  
DG1 2HR  
Tel: 030 33 33 3000  
Email: [shelley.bell@dumgal.gov.uk](mailto:shelley.bell@dumgal.gov.uk)

