



Community Renewables a Cadwyn Clwyd Perspective

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Cronfa Amaethyddol Ewrop ar gyfer
Datblygu Gwledig: Ewrop yn Buddsoddi
mewn Ardaloedd Gwledig
The European Agricultural Fund for
Rural Development: Europe Investing in
Rural Areas



Llywodraeth Cynulliad Cymru
Welsh Assembly Government



Community Renewables a Cadwyn Clwyd Perspective

- Introduction to Cadwyn Clwyd Projects
- The Welsh Scene
- Lessons learned (*and mistakes already made!*)



Introduction to Cadwyn Clwyd

- Not for Profit Company
- Axis 3 and 4 projects budget of £5.8million
- North East Wales – Denbighshire and Flintshire



Introduction to Renewables Projects

- £611,250 project
- Aimed to help community renewables
- Feasibility Studies
- Capital support for pilot projects



Outcomes

The following has been identified

- Over **1 Megawatt** of Potential Capacity Identified
- Potential Annual Generation of over **2,500,00 KWh** of Renewable Electricity



Outcomes

- Potential CO2 savings of over **1,400t** of CO2
- Potential Annual Income of over **£600,000**
- Potential 20 year income of over **£12,000,000**

Outcomes

Limited Renewables Installed

- Two 50kw wind turbines
- One air source heat pump
- One 100Kw Biomass Boiler



Outcomes

- 10kwh/p of solar PV



Why?



- Lots of obstacles
 - Planning permission
 - Grid Connection
 - Funding – FIT & RHI
 - Environment Agency (*abstraction licences*)
 - CADW – *Ancient Monuments*
 - CCW – Biodiversity
 - Group Dynamics and Capacity

Energy Efficiency Work



Community Consultation





Community Renewables in Wales



Developing hydro power projects from 3 to
36kwh

10 plus schemes installed to date

<http://thegreenvalleys.org/>

Community Renewables in Wales

Bro Dyfi Renewables

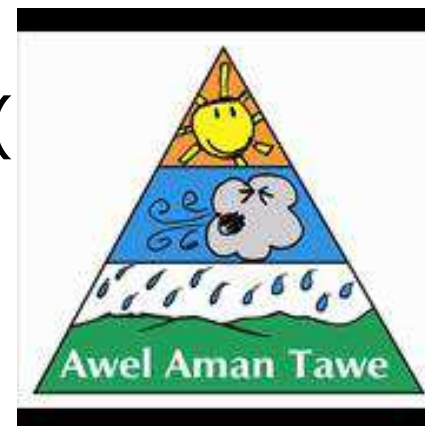
75 kilowatt Vestas

The Nordtank 500k



Community Renewables in Wales

- Planning for 4MW wind farm (
- Community Owned
- Just had a grid offer (July 2011)
- Need to Raise £6 million





Support Available

- Ynnir Fro officers
- £14 million for renewables



Next Steps

- Work to enable communities to invest in renewables
 - Further feasibility studies
 - Build capacity and expertise
 - Help with access to finance
 - Negotiating with landowners
 - Legal structures



Lessons

- Long and Difficult Road
- Rewards are potentially huge
 - Financial and Social
- Short term nature of funders
- Plenty of encouragement and information flow
- Timing is right – Future Proof Your Village