



Handouts of presentation: EcoDyfi - a community regeneration NGO, by Paul Allen, CAT, UK



EcoDyfi - a community regeneration NGO

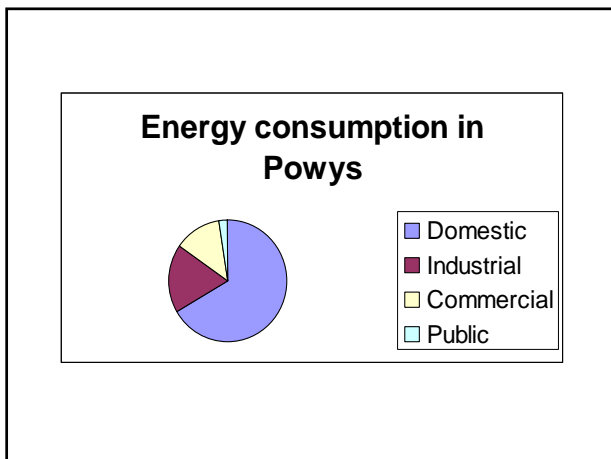
Paul Allen
Board member, ecodyfi

Energy 21 – ‘Community Energy Transition’ Seminar
August 16-18, 2008, CAT, Wales, UK

 http://www.inforse.org/europe/seminar08_Energy21.htm

EcoDyfi?

- Developed from eco-valley partnership between NGO's, community and statutory bodies
- Their vision is for the Dyfi valley to be a thriving bilingual community with a reputation for sustainability through:
 - Strengthening the local economy: the key to meeting social needs.
 - Tourism and farming - the most important local industries.
 - Sustainable tourism is the only kind will succeed here.
 - Local distinctiveness is the key to success in many markets
 - Relocalisation mitigates climate change & delivers energy security



Domestic energy use

- Total energy consumption in houses is up 25% since 1970 (UK)
- Heating is the largest end-use
- People still suffer due to cold every winter because they live in “leaky” houses and can't afford their ever increasing bills

Dyfi valley energy economy

- Widespread use of water power till 1950s
- Became dependent on electricity imported into the local economy (little mains gas)
- About £4 million spent on energy annually
- Commercial wind farms produce about as much *electricity* as is consumed locally
- Most energy for *heating* is still imported
- Expertise and skills base

Powering down energy use

- Dyfi Valley Community Energy Fund aims to reduce carbon emissions by helping people to be comfortable while using less energy
- Managed by ecodyfi on behalf of Glantwymyn Community Council, CAT and the BDCR wind co-operative


Handouts of presentation: EcoDyfi - a community regeneration NGO, by Paul Allen, CAT, UK

Community energy fund


- £1,300 came from CAT's MS4 wind turbine
- Annual dividends of £500 - £600 come from their Pantperthog / Cilgwyn community wind turbine because of shares bought by the Energy Saving Trust
- Some light bulbs from utilities

Actions to date;

- Increase the use of Home Energy Checks
- Give away compact fluorescent lamps
- Arrange talks to groups
- Upgrade community buildings
- Door to door visits in some villages
- Energy also a focus of ecological footprint surveys for householders



Maesglas hydro





100 kW farm-based scheme near Mallwyd (2 intakes)

In Berwyn SSSI & Snowdonia National Park




Sells to grid

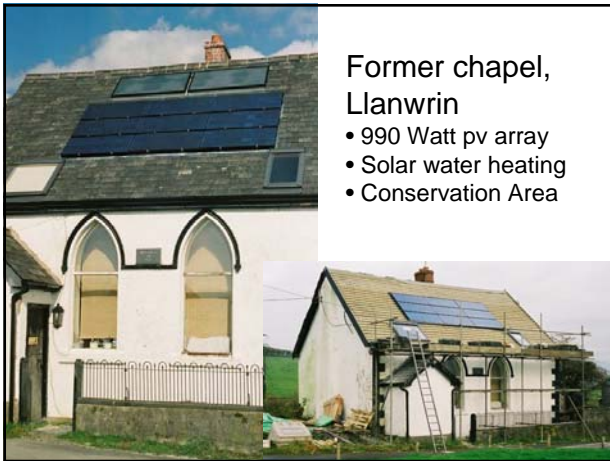
Community wind turbines
Bro Dyfi Community Renewables
Producer coop with 209 shareholders
75 kW & 500 kW Second User turbines


Funding from investors, ERDF, EST & Scottish Power Green Energy Trust

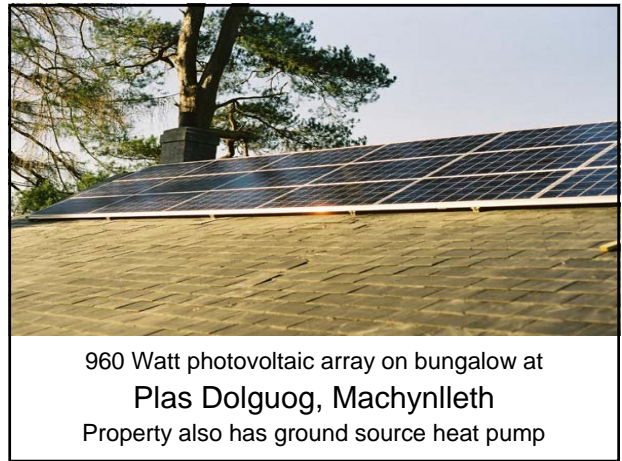


Handouts of presentation: EcoDyfi - a community regeneration NGO, by Paul Allen, CAT, UK

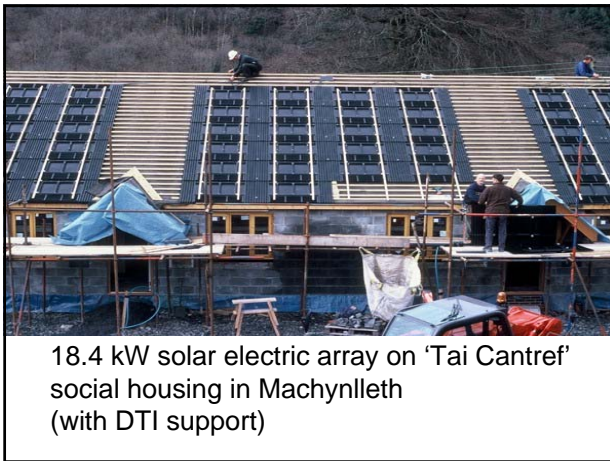


Former chapel,
Llanwrin

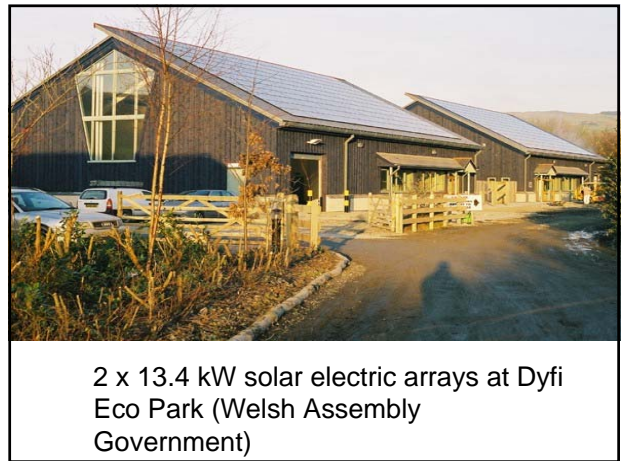
- 990 Watt pv array
- Solar water heating
- Conservation Area



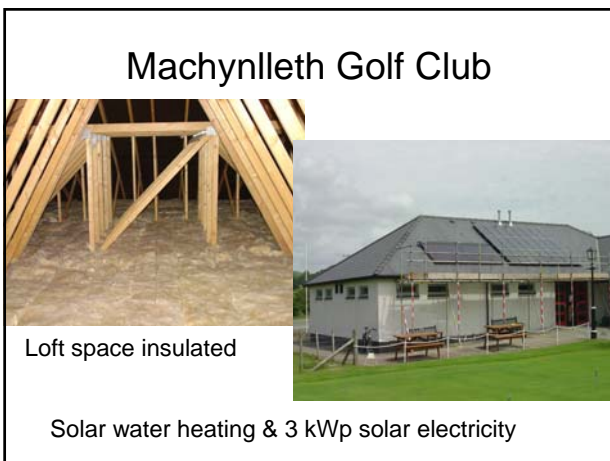
960 Watt photovoltaic array on bungalow at
Plas Dolguog, Machynlleth
Property also has ground source heat pump



18.4 kW solar electric array on 'Tai Cantref'
social housing in Machynlleth
(with DTI support)



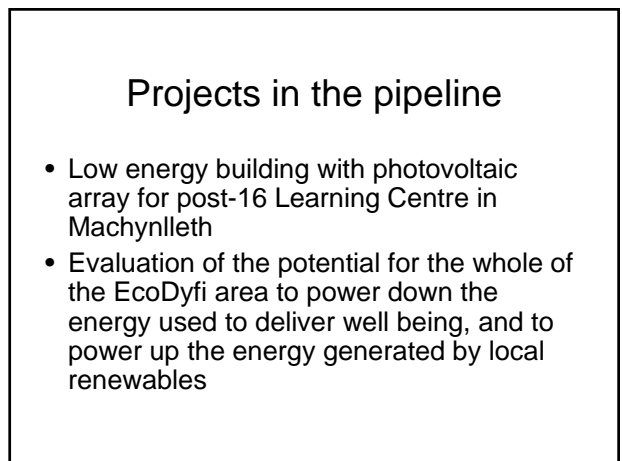
2 x 13.4 kW solar electric arrays at Dyfi
Eco Park (Welsh Assembly
Government)



Machynlleth Golf Club

Loft space insulated

Solar water heating & 3 kWp solar electricity



Projects in the pipeline

- Low energy building with photovoltaic array for post-16 Learning Centre in Machynlleth
- Evaluation of the potential for the whole of the EcoDyfi area to power down the energy used to deliver well being, and to power up the energy generated by local renewables

Handouts of presentation: EcoDyfi - a community regeneration NGO, by Paul Allen, CAT, UK

