



## Eden Local Agenda 21 Cumbria Green Build Fortnight 2007

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### Derwentwater Youth Hostel

### Hydro Electric Installation



Miles Postlethwaite of Turbine Services explained the basic science and practicalities of wind and hydro power and demonstrated the installation of the hydro turbine in the beck to the rear of the Youth Hostel.

His company advises, provides, installs and services off the shelf and one off wind & water turbines and has installed a number of domestic systems in Cumbria as well as commercial/public systems.

In addition to the production of hydro power, the Youth Hostel has only low energy light bulbs, makes its own compost, and is a community recycling point.

#### Principal Sustainability Product

Hydro and wind turbines can produce electricity to be consumed direct or fed into the national grid thereby offsetting its grid demand. An appropriately sized and sited turbine can provide significant renewable energy, reducing (or eliminating) energy bills and dramatically reducing the carbon footprint of an organisation/building.

Cumbria has a huge wind and water resource which could power many small scale installations, thereby helping to reduce Cumbria's energy carbon footprint.

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