

# Case Study



## Hard to Treat Installation High Wray Village Hall, Cumbria National Energy Action

"This is a perfect example of thinking globally and acting locally"

Tim Farron, Local MP

### The Project

The High Wray Village Hall in Cumbria was chosen by the leading national fuel poverty charity, NEA for a Community Buildings Project. The installation of a Green Power air source heat pump was the first of its kind in the UK. High Wray village hall, a 150 year old Cumbria slate building, is a vital meeting place for local people in this small village which has no post office or public house. The success of the project led to commendation for the Renewable Innovation Award 2006.

### The Installation

The 12kW Green Power air source heat pump was found to be the solution for this hard to treat building which had solid walls and no connection to mains gas. A 12kW heat pump was installed to the rear of the building on floor mounts. Inside the hall radiators were installed along with fan vector heaters and a programmable thermostat. The much lower cost of heating and improvement in facilities has made the installation a huge success for this hard to treat village hall.



### Technical Information

#### Property

Slate village hall with no insulation and no mains gas connecton.

#### System

1 x Green Power 12kW Air Source Heat Pump

#### Additional installations

Fan vector heaters

#### Heat Collection

Air source heat pumps

#### Heat Distribution

Wet system via radiators

#### Annual expected savings

Approximately 70% compared to an all electric system



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