

Condover Village Hall



Key facts

Location: Condover, Shrewsbury SY5 7AA

Grant recipient: Condover Village Hall

Using the old heating system (electric heaters – some blown air) the village hall was extremely cold which discouraged some groups from hiring the Hall. The extremes of temperature proved detrimental to the fabric of the building. The trustees had to deal with the cost of repairs due to wet rot and general deterioration of the building. They commissioned an 'energy review' to try to reduce costs, reduce the hall's carbon footprint and improve conditions for hall users. They sought to create a constant ambient temperature, to provide a pleasant environment for users now and for generations to come.

The use of air source heat pumps provided a much more controllable heating system and enabled the Village Hall trustees to respond to the local authority's declared 'Climate Emergency' and significantly reduce its carbon footprint. A full planning application for the installation of ASHPs and a solar array was made and a Heritage Statement prepared as the building is in a Conservation Area. After issues were addressed, planning permission was granted.

Other actions like replacing all light bulbs with LED low energy units helped contribute to lower energy use. The use of internet technology will greatly enhance the management of the hall which will place less pressure on the volunteers who help to run the hall.



Renewable Energy

Installation: ASHPs; Solar PV

Building: Condover Village Hall

Additional capacity: 30.75 kWp
(2 x ASHPs = 24 kWp plus solar PV = 6.75 kWp)
kWp is the peak power of a system.

CO2 saving per year: 1.54 tonnes based on conversion factor of 0.2773. Also, based on conversion from the anticipated energy savings. ASHP estimated to consume 75% less energy than previously used on heating but this is assumed to be taken up by the energy generated by the solar PV.

Air Source Heat Pumps (ASHP): A system that transfers heat from outside to inside a building, or vice versa. Under the principles of vapor compression refrigeration, an ASHP uses a refrigerant system involving a compressor and a condenser to absorb heat at one place and release it at another.

Solar PV: Solar panel electricity systems, also known as photovoltaics (PV), convert the sun's energy to generate electricity. These cells don't need direct sunlight to work – they can still generate some electricity on a cloudy day.

Financials

System Cost: £45,982 inc. VAT

Funding: 50% Marches Renewable Energy grant;
50% Village Hall's own fund and grant from ACRE

For further information

Marches Renewable Energy (MarRE) is an ERDF funded grant scheme towards renewable energy projects in Herefordshire, Shropshire and Telford and Wrekin.

www.herefordshire.gov.uk/MarRE