

Little Wenlock Village Hall: Air Source Heat Pumps (ASHPs)



Key facts

Location: Malthouse Bank, Little Wenlock, Telford TF6 5BN

Grant recipient: Little Wenlock Village Hall

Replacing a 20 year old oil boiler with a modern system based on ASHPs. The main driver is carbon reduction, also expected are energy efficiency savings due to the high efficiency of modern Air Source Heat Pumps. The large main hall uses ceiling mounted air-to-air units which effectively circulate the warm air throughout the large hall (curing a long-standing problem). The remainder of the hall (Committee Room and other rooms) uses an air-to-water system through the existing pipework but with larger radiators to utilise the lower water temperature of ASHP.

<http://www.littlewenlockvillagehall.uk/>



Renewable energy installation: ASHPs

Building: Little Wenlock Village Hall

Air Source Heat Pumps (ASHP): A system that transfers heat from outside to inside a building, or vice versa. Under the principles of vapour 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.

Additional capacity: 43 kWp
kWp is the peak power of a system.

CO₂ saving per year: 4.88 tonnes

Based on using conversion factors from Marches Energy Agency regarding difference between the CO₂ produced by the old and new heating systems.

Financials

System Cost: £24,883 inc. VAT

Funding: 50% Marches Renewable Energy grant;
50% Telford & Wrekin Council Climate Change Fund, Shropshire Rural Community Council, The Parish Council and Village Hall's own reserves.

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