

# St Andrew's School embrace renewable heating with government grant



Chedworth

St Andrews is one of the first schools to obtain a grant under the Public Sector Decarbonisation Scheme. The funding has been used to replace an old oil boiler with Ecodan Air Source Heat Pumps, helping the school to transition to green energy!

The £120,000 grant will also help the school on the road to Net Zero Carbon by reducing its energy demand through LED lighting, insulation measures and also generating its heating and power through the combination of the air source heat pumps and PV panels.

**" Our school is nestled in the most incredibly beautiful countryside, and we feel an absolute moral responsibility to take action to maintain and sustain this for our children's future. A lot of our curriculum content covers the climate crisis and the damage to our environment in the world, but our school's effort makes these topics accessible to every pupil. It is vital that we teach children that what they do matters, whether this be in their actions towards our planet, or actions towards each other".** Headteacher



The challenge and the Solution

St Andrews primary school wanted a low cost and renewable heating system which could maintain a comfortable temperature throughout the school, whilst being as energy-efficient and carbon-neutral as possible.

The challenge was to completely move away from the antiquated oil fired system and use a low carbon form of heating while optimising the current radiators which would be supplied by low temperature Ecodan Air Source Heat Pumps.

The project carried out by Jason Rogan and his team at C P Jefferies was to de-commission the existing old oil fired boiler, and remove redundant pipework and materials and to install a new low carbon heating system. The design requirements for the new system was to cater for multiple heating zones, which includes radiators and underfloor heating.

Disruption to pupil attendance and the down time of heating whilst the school was still in use had to be considered during the project.

A new Ecodan heating system incorporating four 14kW units and a new distribution system was installed which supplies heat to the existing combination of underfloor heating and radiators already in the school. The use of the existing emitter system meant that internal disruption and the need to be in the main public areas was minimised.

Summary:

- 15 tonnes of CO<sub>2</sub> per annum saved
- £4.5k savings per annum
- £120,000 government funding



Product Overview:



14kW



PV



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP-4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

