Design Statement – Bradbury Manor

Why we are installing Air Source Heat Pumps

The design of the ASHP installation at this site has considered the following principles and factors:

1. Wiltshire Council has acknowledged a climate emergency and is seeking to make the county of Wiltshire carbon neutral by 2030. The Cabinet subsequently committed to also make the council carbon neutral by 2030 and a Carbon Reduction Strategy has been developed to enable the council to meet these commitments
2. The Wiltshire Council Climate Strategy states that the council will support a move away from fossil fuels and towards alternative decarbonised energy sources. Within its own buildings the council has pledged to reduce the use of fossil fuel heating and expand the installation of renewable energy technology wherever possible.
3. The move from fossil fuels such as gas and towards low carbon energy requires sufficient electrical capacity to be available at council buildings to support increased demand. An application to increase power capacity at this site has already been approved and in process to provide. There is also the use of PV generating additional electricity already in use on the building.
4. Changing the building heat fuel source from fossil fuel to electricity will support the council in its aim to be carbon neutral by 2030. This is because the council purchase all electricity through a green tariff with no reported carbon emissions from electricity usage

The impact on the environment

1. Air Source Heat Pumps is the technology of transferring heat from the outside air to water for heating and domestic hot water.
2. A major advantage of ASHP technology is there is no fossil fuel usage requirements and no direct carbon emissions.
3. The ASHP will sit within a noise reducing fenced off area providing air circulation but, hiding it from view avoiding any unsightly view. An example picture of the fencing is included on the Bradbury Manor location document included with application.
4. The proposal will not introduce any new building structures as the ASHP is located discretely outside of the building. Neither will the proposal result in the loss of any existing buildings or structures.
5. The proposal will have no impact on the local highway network and no alterations to landscaping are proposed.

Specific design

A full design implementation plan will be developed if planning is approved. This will take account of any access issues including the school and community centre occupants.
The proposed ASHP system will be installed in the grounds of Bradbury Manor respite centre, Devizes, SN10 3AF.

A scaled plan of the grounds showing the proposed location of the ASHP is included with this application.

Bradbury Manor is not a listed building but, does sit within a conservation area. This application is seeking to remove the use of climate changing fossil fuels with carbon free technologies. The ASHP will work alongside PV panels already installed assisting the council with their pledge to become Carbon neutral by 2030. The fencing will not reduce the overall character of the conservation area.