Design and Access Statement

Air Source Heat Pump System for St Mary's C of E Primary School

V2 - July 2025

The Project

St Mary's C of E Primary School has 316 pupils and is located in Pulborough, West Sussex. It is part of the Diocese of Chichester. In line with Church of England net zero targets, the Diocese of Chichester are undertaking a heat decarbonisation project across three schools. A heat decarbonisation plan was prepared by Mantis Energy, which analysed St Mary's Primary School's energy use and assessed heat decarbonisation opportunities. Subsequently, ReEnergise supported the Diocese of Chichester in making a grant application to Salix for funding via the Public Sector Decarbonisation Scheme (PSDS). This grant will help fund the installation of an air source heat pump (ASHP) system, along with improvements to roof and cavity wall insulation.

The Site

The school comprises of one building that has been extended. The original building was built between 1969 to 1971, and was extended in 2007, 2011 and 2017.

The school is located on a large site which includes the school building, playgrounds to the south of the school and a playing field to the rear. A car park, community building and school swimming pool are located to the west of the main building. The school is located on Link Lane in a residential area.

The Proposed Works

The development proposes the installation of an ASHP system for heating the school building and a separate ASHP for heating the water in the pool.

The heat pumps for the main building will be located in a compound to the rear of the school building on the northern side adjacent to an existing shed. The main building ASHP system will comprise of 2No. 64 kW Vitocal 200-A Pro units. The system will be plumbed directly into the existing distribution system. The gas boilers are to be removed.

The heat pump for the pool will be located to the west of the pool, adjacent to an existing plant room. Existing gas heating for the pool will be removed and replaced by a 35 kW Astral Pro Elyo Touch pool ASHP.

Site Photos & Plans

Top left: Front entranced elevation of St Mary's C of E Primary School.
Top right: North elevation from car park looking towards shed.
Bottom left: Proposed main building ASHP location.
Bottom right: Proposed pool ASHP location.









Top: Site boundaries and location plan.
Bottom: Site plan showing proposed ASHP location.



