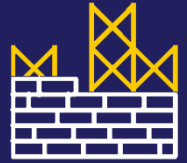




# Bargoed W.A.S.T PV & ASHP Works

## Case Study



### Background

To maximise the potential of their asset to produce energy, reduce operating costs and work towards reducing their carbon footprint, the Welsh Ambulance NHS Trust determined the requirement to incorporate solar PV and Air Source Heat Pumps (ASHP) on their properties.

This phase of their programme included provision of solar PV and ASHP to the single storey steel framed Bargoed Ambulance Station property.

### Delivery

Through effective management of our suppliers and specialist subcontract partners, Centregreat completed the following scope:

- Removal and disposal of existing Gas supply, pipework, systems and controls
- Design, supply, install and commission of new Mitsubishi ASHP for heating only, inclusive of all control panels and plumbing
- Replacement of existing radiators with larger units to allow for lower temperatures
- All necessary modification to existing pipework to suit new location of ASHP
- Design, supply and Installation of new unvented hot water cylinder
- Installation of solar diverter for hot water and 1 no storage heater, including modification to existing pipework
- Replace all existing pumps and valves associated with the heating and hot water
- Design, supply and install new LONGi high efficiency Solar Photovoltaic system to new roof, including Vandervalk mounting system and all AC/DC electrical works
- Installation of 6-way 3 phase distribution board within meter room for additional circuits, including circuit protection

- Cabling and containment for new ASHP, unvented hot water and solar Photovoltaics

### Outcome

The programme was carefully managed by our team, in conjunction with the client, working closely with the supply chain to accelerate delivery of solar and electrical items that had become difficult to procure due to global supply chain disruption.

Centregreat were proactive throughout the consultative process and completion of works, including routine engagement with the client and Ambulance Station personnel, to ensure no disruption to critical operations of the live site.

The scheme was delivered on time and to budget.



**Client:** Welsh Ambulance Service  
**Value:** £248k  
**Delivery Period:** Mar 2022 – Jun 2022