

## Description

- ◆ The design and construction of a new Hospital Sterilisation and Decontamination Unit (HSDU) to be located adjacent to the proposed Specialist and Critical Care Centre (SCCC) at Llanfrechfa Grange, Cwbran
- ◆ The building design and construction forms part of Aneurin Bevan University Health Board's (ABUHB) Clinical Futures Programme
- ◆ The design provides a mechanically and electrically resilient site for endoscope medical equipment cleaning and sterilisation.



## Benefits Delivered

- ◆ Low Carbon and Renewable Technologies incorporated – CHP and PV
- ◆ Dedicated steam system providing process clean steam to Sterilisation and Washing equipment
- ◆ Delivery of BREEAM Excellent scheme
- ◆ Challenging accelerated design programme delivered during Covid-19 pandemic
- ◆ HTM compliant mechanical, electrical and public health services systems delivered.



## Involvement

- ◆ A design and build type contract. SDS were appointed to deliver a detailed MEP design through RIBA stages 4A to 4C.
- ◆ Fully designed, detailed and coordinated using 3D Revit BIM of services installation to RIBA 4C / BG6 coordinated specific technical design
- ◆ Complex environmental conditioning services design, providing ISO 14644:2015 Class 8 Clean Room and airflow pressure cascade in line with HBN13; providing a sterile environment for medical implement cleaning
- ◆ Occupant thermal comfort assessments and Welsh Part L2A regulations buildings physics simulations, combined with LZC technologies assisted in achieving 10 BREEAM Energy credits.



*£15.7m onsite sterilisation facility to service emergency operations and surgical procedures*