



**Electrical, Telecoms
& Security Design
Consultancy**

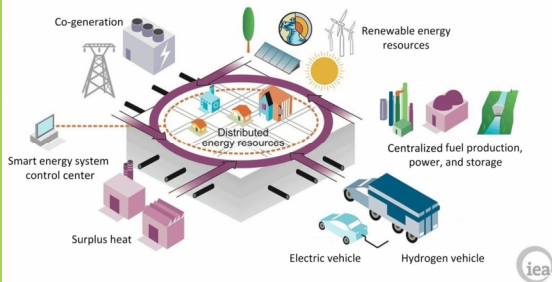
CASE STUDY - SUSTAINABILITY

Project: NHS Westward House
LV Infrastructure Replacement and
Introduction of Green Energy Generation

Client: NHS

Date: July 2023 - June 2024

Value: £3m



Project Overview:

The works at Westward House were part of overall upgrade strategy for this site. The works have been carried out in a number of phases. These phases are:

- Phase 1 - Installation of New PV and New CHP and new boilers and controls
- Phase 3 - Replacement of existing LVAC Switchboard with New LVAC Switchboard and G100 Metering Panels.
- Phase 4 - Transfer of all LVAC supplies from Old LVAC Switchboard to New LVAC Switchboard
- Phase 5 - Integration of G100 Metering controls, PV, and CHP to new LVAC Switchboard.

ESD provided the following consultation for the NHS:

- DNO applications for Generation G99 and G100.
- Overall strategy for LV infrastructure and controls.
- Integration of New Chillers and Boilers
- Resilience and changeover strategy for the on-site Data Centre.
- Specification G100 and G99 controls
- Specification LV Switchgear
- Specification of PV and CHP controls interfaces
- Cabling and containment
- LV protection study
- Detailed Changeover plans for all loads
- Data Centre resilience in agreement with NHS Data Centre teams.
- Management of site works, site changeovers and handback processes.
- Witness testing of all systems and preparation G100 Form C to DNO

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