

GS RENEWABLE CASE STUDY



HALE HOUSE, HALE
PARK, HAMPSHIRE,
UNITED KINGDOM

HALE HOUSE, HALE PARK

BACKGROUND

- Hale Park was built c.1715 by noted Baroque architect Thomas Archer (1668-1743).
- Hale House (Grade I) listed stately home and wedding venue consists of c.100sqm of Drawing Rooms, and more than 500sqm of gardens and a church.
- Client wished to switch from oil fired heating and hot water to renewables.

PROJECT CHALLENGES

- Installation in a Grade I listed building was not convenient due to restricted space and access.
- Construction in the buildings would have led to disruption to the homeowners and the business.
- Multiple independent buildings on the grounds required services (House, North and South wing).

SOLUTION

- On-site consultation was carried out by GS Renewable consultation team.
- Our design team took into consideration the requirements and challenges faced by our client and designed a bespoke modular heat pump plant room.
- The modular plant room was assembled off-site and delivered on-site upon completion to reduce the disruption of running their business.
- The plant room was colour matched to RAL sample paint and sympathetically located on the grounds to blend into the background with the trees.
- It now powers our client's buildings with ground source energy for heating and hot water with cold water storage, filtration, pressurisation, solar thermal and planned Solar PV to follow.

RESULT

- Monetary figures below are based on today's price (Jul 2022).
- The carbon reduction / year is 110 tonnes with a primary energy use reduction of 428MWh / year.
- By installing our bespoke modular heat pump plant room it had resulted in a 66% reduction in operating cost, it now costs our client an operating cost of £11,785 / annum.
- It would have cost our client £34,775 / annum to operate with oil.
- We expect the savings to double upon project completion.
- This project was shortlisted for the European Heat Pump Awards and attained Highly Commended status at the Heat Pump Awards in UK.



PLANT ROOM DESIGN: GS RENEWABLE UK
ASSEMBLE: GS RENEWABLE UK
PROJECT MANAGEMENT: GS RENEWABLE UK
PLANT ROOM DELIVERY (TO SITE): ALLEN HAULAGE
PLANT ROOM COMMISSIONING: GS RENEWABLE UK
EQUIPMENT SUPPLIED BY: VISSMANN, REFRA, WILO