Brocket Hall Estate case study

PEACE MARSH COUNTRY PROPERTY

Energy assessment and fully costed roadmap for improvements with ROI

BACKGROUND

Brocket Hall estate is 543 acres which is home to a Grade I listed building dating from 1760. It has many uses, as a Golf Club, luxury events venue, film location, dining and residential. Almost all of the buildings on site have listed status; many of the interiors are exquisitely decorated and with original features.

We were retained to carry out an energy survey of all of the Brocket Hall Estate including the historic grade one listed Brocket Hall itself. The brief was to take into account the current condition of the buildings and areas in which energy savings could be achieved, along with the identification of opportunities where renewable energies could be implemented mainly to replace dependence on heating oil and LPG.

PROJECT

To provide the leadership team with a comprehensive energy review, a roadmap for improvements and initial budget with ROI for the modernisation works. We also provided guidance on the renewable energy installations that would be of most benefit to The Estate.

The survey looked at the heating, ventilation and air-conditioning (HVAC) systems of all the main buildings; Brocket Hall, Auberge du Lac Restaurant, golf clubhouse, administration buildings (converted stables) and green keepers workshops, together with any controls, lighting and water usage. It also looked at the fabric of the building from an energy perspective (i.e. insulation levels of the roofs, walls and windows).

The site covers a large area, has a lake and many buildings all heated by oil or LPG and all requiring electrical power.

RESULT

- Energy assessment of all real estate on the site
- Summary of costs, savings, paybacks and return on investments.
- Renewable energy opportunities including:
 - 2 District heating systems with plant rooms.
 - Solar car canopies.
 - Solar PV on Green Keepers workshops.
 - Rainwater harvesting.
 - LED lighting upgrades.
- Project planning and implementation.
- Energy saving technologies and improvements including thermal insulation, water usage & lighting.
- Scoping, fully costing and drawing up project plans for the phased implementation of the programme of works required.



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