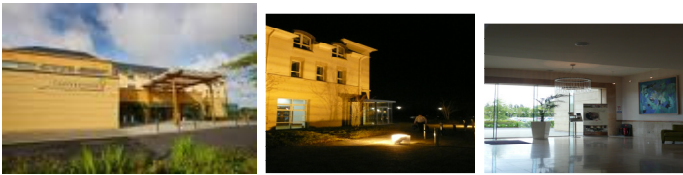




Hotel case study 1

Castleknock Hotel & Country Club



Navitus was contracted to undertake a comprehensive energy audit, energy procurement study and feasibility studies for Automatic Monitoring and Targeting (AM&T) systems at Castleknock Hotel & Country Club, beginning in 2008.

Project results

Initial energy audit

- **Identified opportunities for 22% energy savings**
 - General energy management e.g. daily energy and event profiles, use of existing equipment and controls, energy management best practice, targets and benchmarking
 - Upgrading insulation and other building elements
 - Lighting profile e.g. change to energy savings lighting and upgrade controls
 - Heating equipment and controls upgrade
 - Automatic monitoring and targeting system
 - Renewable energy systems scoped to provide even more energy savings

Energy procurement study

- **Identified opportunity to recover €10,000 in one area alone**
 - Comprehensive tariff analysis including surcharges
 - Tender for gas and electricity including detailed profile summaries
 - Analysis of commercial discount schemes e.g. Winter Peak Demand Reduction and Power Saving schemes
 - Review of generator size and site capacity charge
 - Review of potential for onsite CHP

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AM&T feasibility study

- ***Specified configuration of sub-metering, offering a payback of less than 1 year and saving up to €6,500 based on 20% energy savings in 1st year***
 - Identification of key areas of energy and water use
 - Design and specification of areas of equipment and software
 - Tender analysis from AM&T suppliers
 - Cash flow, NPV and payback analysis

CHP feasibility study

- ***Identified best technology and offer for outright purchase with payback of below 1½ years***
- ***Assisted in drafting, analysis and selection of several Discount Energy Savings scheme proposals.***
 - Review of design and specification of previous CHP proposals
 - Preparation of tender data and profile information for suppliers
 - Comparison of CHP proposals including technical and financial analysis
 - Review of contracts for Discount Energy Savings offering
 - Project management

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