



How We Can Help...

A selection of case studies...



Discovery Document Case Study

Overview

Utility Aid offers customised energy use investigations in the form of *Discovery Documents*. These documents can be carried out remotely or on-site for individuals or groups of buildings. The main objective of the *Discovery Document* is to assist organisations in reducing their energy consumption and achieving net zero status. Our in-house qualified energy assessors will conduct a thorough site survey, inspect the energy-related services of the building, capture pictures and collate the energy use data for the specified period. The report generated from this investigation will help organisations make informed decisions and identify the most feasible options for reducing energy consumption in their buildings.





Discovery Document Case Study

Diocese of Dunkeld, St Bernadette's Roman Catholic Church

The diocese reported a significant increase in their electricity consumption, and the gas consumption seemed to be very high despite not using the heating as much. They tried to investigate the issue, but they could not find a feasible answer. The energy supplier for both gas and electricity inspected the meter but found no faults. The parish priest then contacted Utility Aid seeking their assistance.

Utility Aid sent an in-house assessor to the site to conduct an inspection. Our energy assessor took note of all the power-consuming appliances that were both in the Church and the parochial house that was attached. This was then added to our energy use calculator to determine if recorded consumption matched the anticipated levels. From the calculations conducted Utility Aid were able to confirm that the meter was reading correctly and that the consumption issue was from recently installed air-source heat pumps. Gas consumption was found to be in line with the user's heating settings and the larger bill was due to a recent cold snap that saw the temperature in the area remain low for nearly a month.



Discovery Document Case Study

Diocese of Dunkeld, St Bernadette's Roman Catholic Church

What were the outcomes of the Discovery Document?

The Church received advice regarding the cost of running an air-source heat pump as compared to their previous spending on gas. The seller of the equipment had not disclosed some information which led the church to expect significant savings on gas with no increase in electricity costs. However, after removing gas heating from the church side of the premises, the heating system was no longer working in unison, causing connected areas to remain unheated for long periods. This resulted in additional heat loss from the house, leading to increased run times on the boiler and higher gas costs. The diocese was advised to improve the building's fabric efficiency by adding insulation to the loft and external wall, and by draught-proofing doors, windows and connected areas.

7 AFFORDABLE AND
CLEAN ENERGY



11 SUSTAINABLE CITIES
AND COMMUNITIES



13 CLIMATE
ACTION



17 PARTNERSHIPS
FOR THE GOALS





Discovery Document Case Study

Diocese of Paisley, St Paul's Chapel.

St Paul's Chapel came to Utility Aid for a discovery document as they have reported that their electricity consumption had almost quadrupled from the previous period. After being unable to source the reason for the large jump in consumption themselves they decided to outsource to Utility Aid for guidance.

To find out the reason behind a sudden increase in energy consumption, our in-house energy assessor downloaded invoices to obtain accurate meter readings. Upon estimating the energy usage from these invoices, the assessor discussed the heating systems with the customer and found out that no one knew how to control the new heating units. It was discovered that the heating system had been constantly on since the day of installation, causing a surge in consumption. The assessor provided some recommendations to reduce energy consumption and prevent similar incidents from happening again.



Discovery Document Case Study

Diocese of Paisley, St Paul's Chapel.

What were the outcomes of the Discovery Document?

The Church has received recommendations to install sub-metering to the heating circuits and provide monitoring/displays to all users of the building. This will help them identify if the heating system is on or off. It has also been suggested that the Church ensure that the heating units are switched off at the spur when not needed. By taking daily meter readings for an extended period of time, the Church can estimate its expected daily consumption. The following advice was also given to reduce heat loss and make the system more effective:

- The Church should consider draught-proofing external doors.
- It is recommended to install an air curtain above the main entrance doors to reduce heat loss when they are open.

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Discovery Document Case Study

Diocese of Motherwell

The Diocese of Motherwell came to Utility Aid for advice on their plans to renovate their building.

The project involved the installation of insulation and replacement of the heating system with a low to zero carbon System. The aim was to reduce carbon output and lower energy costs. However, the Diocese faced conflicting reports from contractors. Seeking independent advice, they had a Utility Aid assessor examine the proposed measures and program of works. The proposal claimed significant energy savings and eventual cost recoupment. But, after investigation, Utility Aid issued a document refuting these claims. It revealed that the scheduled work had not mitigated the risks associated with insulating a period building. Furthermore, the heating cost for the building would increase due to the fuel type change. Therefore, the diocese decided to shelve the project as the risks to the building fabric were too high and the return on investment did not meet their expectations.



Discovery Document Case Study

What our customers have to say...!

Did you find the survey easy to carry out?

"Yes, the software worked well. Ruaire was an expert in asking the right questions to guide me to places and eliciting the information he needed, it took about two hours to cover the whole building."

How would you describe the service you received?

"Professional, helpful, and informative."

What did you like most about the report you received?

"It has enabled us to begin planning on an informed base. We have discovered that some of the things we thought we might do are less of a priority and that other things we had not thought of have moved to the top of our agenda. The insights into the savings that can be made through building management, alongside capital investment, were particularly helpful."

Would you recommend the service?

"I would absolutely recommend Utility Aid and Ruaire for the remote energy audit."

-Reverend Dr Simon Woodburn, Bloomsbury.

"Most recently we have used their Remote Building Assessment to obtain guidance on how we might reduce the energy consumption of our very old building. After a tour of our building via video link with an energy assessor, we received a comprehensive report on what improvements, large and small, we could make and their suitability, which was followed by a discussion with the assessor. I have learned so much from this process. With the support of the report, I feel much better equipped to work with my fellow Trustees to reduce the carbon footprint of our village hall".

-Jane Lutman, Flamstead.

"The survey was very helpful, thank you so very much!"

-Liz Robb, Pollok.



Get in touch today to find out more about our
Discovery Document Services!

Our prices start from £195 + VAT. Get in touch
today to find out more information.



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