



Project Details

CLIENT: CURA ENERGY HEAD OFFICE

TASK: ENERGY MONITORING INSTALLATION

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The Background

Our Landlord and neighbour 'Blends for Friends' was fully engaged and on board with the installation of an energy monitoring system as they wanted to understand the overall energy usage for both The Barn (our office space) and the Tea Factory (their own facility). Blends for Friends wanted to be able to utilise the data from individual supplies.

The Cura Energy Approach

Before installation of these systems, surveys determined that in The Tea Factory, certain mechanical and HVAC loads would be monitored, whilst lighting would be monitored in both buildings.

In The Barn, we installed the Wibeec system which consists of individual meters that connect to supplies using miniature CTs. The meter itself is programmed using Wi-Fi and acts as a data logger. Each meter can monitor either 3 single phase supplies or 1 three phase supply. 7 Wibeec meters were installed for the lighting supplies in The Barn. In The Tea Factory, we installed a GSM SIM card system designed by Carlo Gavazzi. This system has individual meter modules connected to a slave unit (data logger) via Modbus. This data logger is connected to a GSM router, which sends the data via a SIM card. 7 x Carlo Gavazzi MV-Type meters were connected to the supplies in the Tea Factory.

Both systems can be accessed remotely using a web interface portal which provides information about energy usage, including consumption, efficiency, emissions, and more...

The Result

Blends for Friends can now utilise the data from our web portal to gain a better understanding of their buildings' energy consumption. This project also proved useful for us as well. It successfully showed us the pros and cons of using both Wi-Fi and SIM Card applications. Trials like these strengthen the accuracy and eligibility of the guidance that we give to our clients.