

Keele University Sustainability Hub

Monitoring innovative low-carbon technology

Client



System



Focus on sustainability

The SIPe energy monitoring, targeting and display solution has been installed at the Keele Hub for Sustainability at Keele University's Sustainability Hub.

The Hub acts as a focus for the research, teaching, and management of sustainability and low-carbon technology at the University, bringing together a wide range of activity in this field and communicating findings across campus, businesses and the wider community.

Real-time energy monitoring

Synapsys Solutions installed a SIPe M-Bus Meter Logger in the Hub's Energy Room where visitors can see innovative green technology being used and tested, including rainwater harvesting, PV, biomass and ground source heat pumps.

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Instant access to energy data

A key requirement at the Hub was the ability to have instant access to energy data from the onsite plant in order to assess energy efficiency and the contribution being made by individual technologies. This data also allows the Hub team to test and monitor control strategies.

The SIPe is located in an enclosure within the energy room where it monitors Kamstrup Multical 601 meters plus via a pulse acquisition module, the pulse outputs from the rainwater harvesting system, and the electric pulse meter measuring the PV energy contribution.

SIPe as an educational tool

Visitors to the Hub including schools, students, researchers and businesses will have access to the SIPe to view energy performance, graphs and dashboards in order to understand the energy use at the Hub, as well as the research and development work that is undertaken to reduce consumption and improve efficiency.



The SIPe M-Log allows you to define, collate and display energy data and performance from a single network of ModBus or M-Bus meters. Pulse meters can be included using pulse acquisition modules. This can work as a stand alone solution or can be networked with other SIPe products.

Matt Gardner

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energy data

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and monitor control
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