

PLUGGING INTO UNTAPPED ENERGY SAVINGS

Cranfield University unlocks energy savings with intelligent outlet-level monitoring and control

Case Study

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“The ability to get detailed information on small power usage and learn more about our typical energy footprint is teaching us lessons that we can apply across the entire campus. With this solution, there are significant savings to be had.”

A photograph of a building's exterior wall made of vertical wooden planks. Large, white, three-dimensional letters spell out 'Cranfield UNIVERSITY'. The 'C' is significantly larger than the other letters. The wall is set against a clear blue sky. In the foreground, there is a patch of green grass.

Cranfield
UNIVERSITY

Honeywell

PLUGGING INTO UNTAPPED ENERGY SAVINGS

- Cranfield is a world renowned centre for innovation
- Initial POC installation of 90 sockets
- Designed to drive Energy reduction in all locations
- 60.9% savings found on average in archive area



Cranfield University is among the world's most prestigious postgraduate universities and is renowned for its strong research and innovation. In the spirit of innovation, Cranfield was one of the first to deploy Connected Power.

CHALLENGE

Energy managers across the developed world are under continuous pressure to reduce their buildings energy usage and expenditure.

Increasing legislation and internal goals are all driving energy managers to identify new, innovative approaches to reduce a building power use. To keep ahead of governmental energy reduction initiatives, Cranfield has its own ambitious target of achieving Net Zero by 2030.

Cranfield determined that, in order to achieve this goal, it needed to find a way to monitor, manage and control electrical small power outlets, that were previously unmanaged and unmonitored.

The capability to do this was not supported by their existing capability or building management system (BMS) — which is where Connected Power came in.

GOALS/NEEDS

- Optimise energy performance and reduce usage
- Gain full insight into energy use across site
- Automate outlet control with intelligent scheduling features

SOLUTION

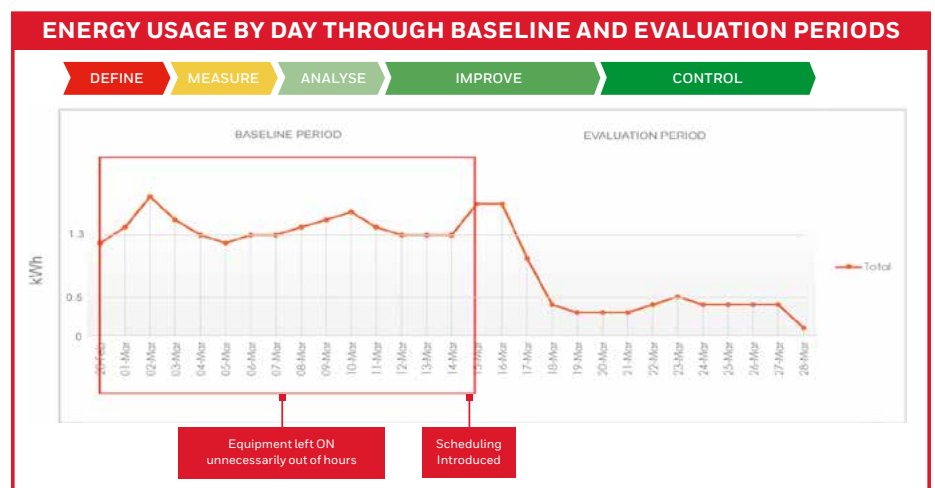
Connected Power is the first fully integrated small power management system for commercial buildings, bringing socket-level monitoring and control functionality into building energy management systems.

Connected Power sockets occupy the same footprint as standard electrical sockets, so they can easily be retrofitted into the university buildings.

The sockets wirelessly communicate to a hub, which then connects into the university's BMS enabling full insights and control of small power usage. The initial project consisted of 90 sockets installed in various locations at Cranfield University.

Once everything was connected, Cranfield could identify the exact sources of small power consumption across their buildings whilst granularly measuring and recording consumption.

These insights were invaluable and when coupled with intelligent control gave an immediate reduction in energy usage.

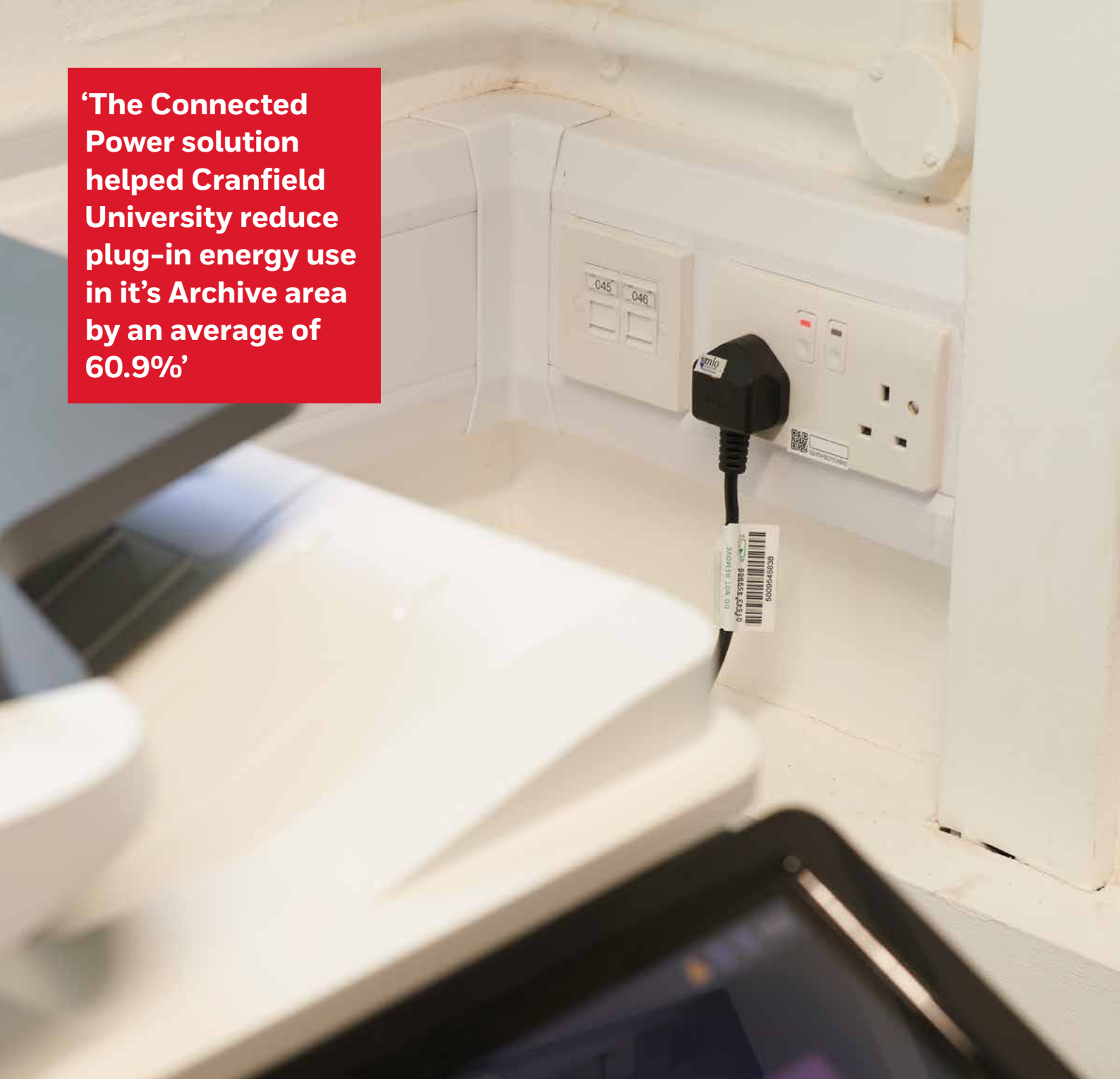


RESULTS

The Connected Power solution helped:

- Reduce plug-in energy use in it's Archive area by 60.9% on average
- Monitor, measure and automatically control small power loads from one central platform
- Identify faulty equipment causing higher power consumption
- Accurately measure all of small power loads and background energy usage
- Unlock the potential for substantial, continuous reductions in previously hidden power consumption

‘The Connected Power solution helped Cranfield University reduce plug-in energy use in it’s Archive area by an average of 60.9%’



WATCH THE CUSTOMER FEEDBACK VIDEO:

<https://share.vidyard.com/watch/uNCxM93XignRd3CiVzn3cF>

For more information

[Hwl.co/discoverconnectedpower](https://hwl.co/discoverconnectedpower)

[#discoverconnectedpower](https://twitter.com/discoverconnectedpower)

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