



## Navetas Energy Monitor & In-home Display

Having launched the “Navetas Smart Hub” as a product to be installed by utility companies, Navetas Energy Management was looking for a way to market their unique appliance disaggregation technology directly to the consumer.

The challenge lay in making the product easy and safe to install in the meter cupboard – a location that can be unfamiliar to many householders.

CDP quickly came up with an effective design for a clip-on device to measure mains voltage as well as derive power from the connection, eliminating the need for batteries. These clips connect directly to the conductors in the mains cables, unlike the more typical non-contact current sensors found in many energy monitoring products.

Within a few months, a patent application was filed for CDP’s design. This enabled Navetas to introduce their “Energy Monitor” product – a unit that can be installed without isolating the electricity supply to a property, and with no need for a qualified electrician. Once fitted, it monitors how much energy each electrical appliance in the house uses, by analysing mains waveforms at a single point. It does not rely on any sensors or socket adaptors around the home, allowing it to monitor fixed installations such as ceiling lights and storage heaters.

CDP undertook another development for a table-top in-home display, to supplement Navetas’ internet browser-based Online Energy Monitor. Using a touch-screen over a vibrantly coloured LCD display, this custom panel indicates total and disaggregated energy use to the consumer, in £, kWh, CO<sub>2</sub>. The unit is enabled by ZigBee wireless technology, and receives data from the Energy Monitor. It can also provide speech output to the visually impaired.

[www.navetas.com](http://www.navetas.com)



For more information:

Phone: +44(0)1223 264428

Email: [info@cambridge-design.co.uk](mailto:info@cambridge-design.co.uk)

Website: [www.cambridge-design.co.uk](http://www.cambridge-design.co.uk)