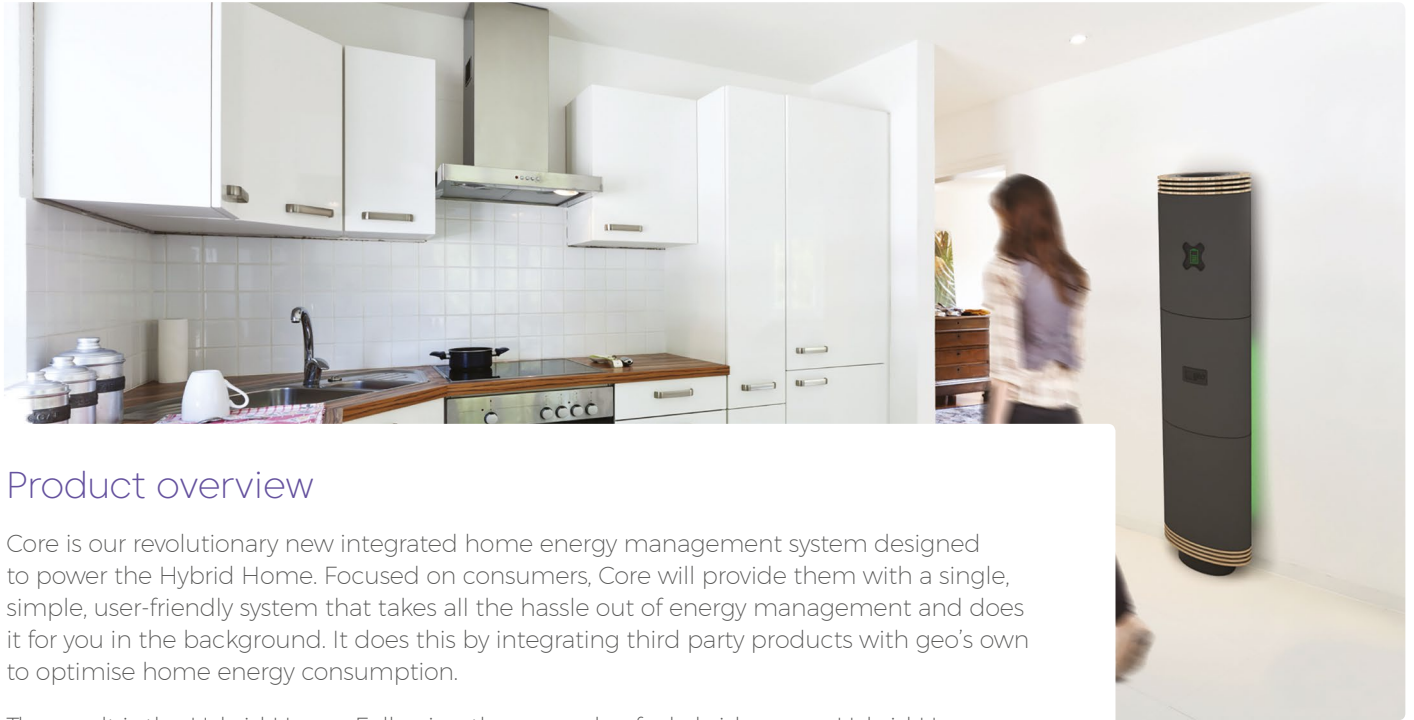




core and the hybrid home

Integrated energy management system



Product overview

Core is our revolutionary new integrated home energy management system designed to power the Hybrid Home. Focused on consumers, Core will provide them with a single, simple, user-friendly system that takes all the hassle out of energy management and does it for you in the background. It does this by integrating third party products with geo's own to optimise home energy consumption.

The result is the Hybrid Home. Following the example of a hybrid car, our Hybrid Home aims to reduce bills and improve living experiences whilst letting you live your life the way you want to. Energy storage is at its heart.

By bringing energy storage together with metering, microgeneration and appliance control – and making it visible through an engaging interface – our system makes this technology both accessible and desirable.

Key elements

Simplicity

- Simple to understand, to use, to buy and to sell

Making homes affordable to run through:

- Running the home on off-peak electricity and solar (if available)
- Integrating energy efficiency measures and appliances
- Selling Demand Flexibility back to the market

Improving living standards

- Cleaner, easier to manage: affordable comfort

Reduced CO2 by enabling:

- Enabling the electrification of heating and transport
- Enabling greater use of microgeneration systems
- Making more use of off-peak electricity that has a lower CO2 make up than peak electricity



Core will provide four simple modes:

- Eco – using lowest energy
- Economy – using lowest cost
- Convenience – ensuring availability at the times you need
- Away – reducing consumption to a minimum whilst maintaining an appropriate environment

To achieve this Core will provide:

- User interface and controls
- Energy storage management
- Interface with smart meters – both for import and export
- Microgeneration integration (where fitted)
- Automation of implicit and explicit demand management
- Interfaces with and control of heating, appliances and electric vehicle charging
- Data integration with external sources such as weather forecasts

