

**Award Category:** Most Sustainable Construction

**Project:** Kimpton Road - Self build

**Client:** Homeowner

**Project Team:** Paul Osborne, Gyoury Self Partnership, Jackie Gough, BeGreen, Solinvictus, Merronbrook Ltd, The Green Building Store, Sunflex Bi-folding Doors

Kimpton Road is a contemporary and sustainable family home that utilises modern design and sustainable methods of construction, and has zero carbon impact.

The building design is modern with clean lines that reflect the architectural character of the neighbourhood, yet is sympathetic to the wider rural setting. Internal spaces are light and airy, and as large as possible within the constraints of the site.

The house is constructed from a timber frame system and the cladding is a mixture of cedar board and single coat render on render boarding. All materials used during construction are renewable, recycled or have low embodied energy.

The prime heating system for the house is a Ground Source Heat Pump and secondary heating is provided by two solid wood burners. (Sustainably sourced timber allows this form of heating to be effectively considered as 'renewable'). Space-heating is reduced to a minimum by maximising winter solar gain, specifying high levels of insulation, using energy-efficient glazing, ensuring a high level of airtightness and installing a heat recovery system and underfloor heating. PV Panels are made of black glass and frames, and have minimal visual impact.

#### Judges comments:

"This is an inspirational private residence that achieves zero carbon in use. It is also a self-build scheme. The owner is a construction project manager who was assisted by an architect. The approach is exemplary with exceptional attention to detail. After several months of occupation the operation of the house is approaching an optimum. It is an holistic scheme that avoids the 'eco-bling' that often compromises attempts at zero carbon houses.



A comprehensive specification includes home offices and flexibility for whole life use. It includes a green roof, recycled materials and outstanding energy and sustainability certification credentials."