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Home Technology Technology For An Eco-Friendly Home

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Need more inspiration? Take a look at this recent housing project.

Case Study

The Greenhouse development in Leeds (exterior seen on page 1), designed by CEDIA member [Finite Solutions](#) for developer Citu, is the UK's first 'zero carbon' multi-dwelling development, which integrates home automation with the latest cutting-edge environmental technologies.



Technical Credentials

* Each apartment has an integrated energy monitoring system, which using the TV as an interface, lets the owner monitor their flat's energy usage, and the amount of energy the building is generating and using as a whole. With this system, owners can form an 'energy co-operative', with Greenhouse acting as energy supplier and invoicing homeowners by net usage, taking into account energy produced on site and energy 'exchanged' between apartments.

* Homeowners can book an electric pool car from the on-site car club, get real-time information on the next buses and trains departing from local stations and access an integrated community notice board to keep in touch with the wider community.

Environmental Credentials

- * Heating and cooling to each apartment via ground-source heat pumps and VRF.
- * Roof-mounted solar thermal panels to heat the hot-water system.
- * Heating and cooling recovery achieved through a district heating system.
- * Central rainwater and grey water tanks provide recycled water for toilet flushing and washing machines.
- * Wind turbines provide communal energy for lights and lifts.

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