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## PROJECT SUMMARY

**Project Name:** Kidby House PV Installation  
**Size of Installation:** 21.6 kWp Photovoltaic installation split over 10 systems  
**Type of Installation:** Retrofit  
**Client:** Moat Housing Association  
**Equipment:** Module – 120 x BP7180s framed modules  
Inverter – 10 x Fronius IG20  
Mounting system – UniRac SolarMount  
**Completion Date:** June 2005  
**Predicted Generation:** 16,200 kWh per year

### Project Summary

Kidby House is a housing association property that offers accommodation for teachers in the Tunbridge Wells area of Kent. Modules are installed on the roof in two large arrays, however the installation is configured electrically to give 10 separate systems. One system is connected directly to the distribution board of each flat.



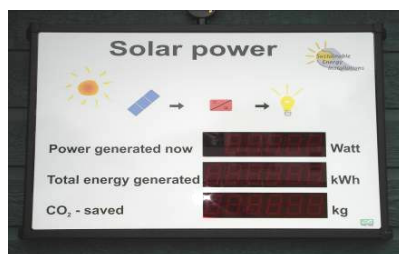
*Kidby House showing both south and west facing arrays*

### Technical Information

Each system have a rated power of 2.16 kW comprising of twelve high efficiency BP Solar BP7180s mono-crystalline PV modules and a Fronius IG20 inverter.

### Social, Economic and Environmental Benefits

A requirement of the installation was to provide a large visual display to show information relating to the generation of the whole installation. This was achieved by connecting all of the inverters to a single data-logger, which then supplied data to a display board facing the adjacent school. Generation for the site is predicted as 16,200 kWh per year, saving 140 tonnes of CO<sub>2</sub> emissions over a twenty year period.



*The visual display facing the adjacent school*



*Four of the 10 inverters installed*

**Sustainable Energy Installations – supply and installation of renewable energy systems**