

Climate Change Fund Case Study

Photovoltaic Solar Panels:

Scott Lower, Brickhill Lower and Beauchamp Middle Schools in Brickhill each had a 3.88 kWp solar photovoltaic (PV) system consisting of 21 panels each, installed on their roofs, with funding from the local councillors' Ward Funds and 50% match-funding from the Mayor's Climate Change Fund.

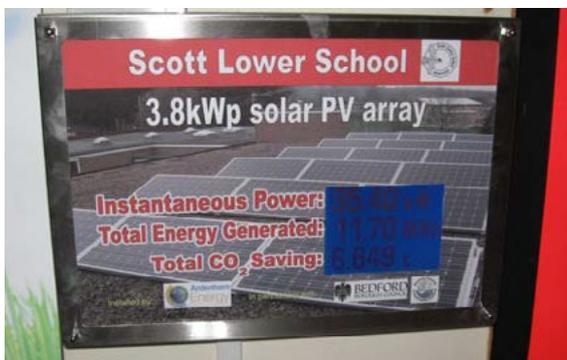


Solar PV panels being installed on Brickhill Lower School's roof



Solar PV panels installed on Scott Lower School's roof

Power Generation Display Units were also installed in the reception or hall at each school to raise awareness of the installation of the solar PV panels to the pupils, staff and visitors to the school.



Power Generation Display Unit at Scott Lower School

The display units show:

- the amount of energy being generated at the time (Instantaneous Power)
- the total amount of energy generated by the panels (Total Energy Generated)
- the CO₂ saving as a result of the electricity generated (Total CO₂ Saving).

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The display units will help to raise awareness of the benefits of renewable energy and its role in mitigating climate change, and will also help to educate the staff and pupils of the schools of the need to be more efficient with their use of energy. This will hopefully result in a reduction in energy consumption at the schools as for example; lights and computers will be turned off in the schools when not required.

Costs for each School:

- Installation of a 3.88 kWp solar photovoltaic system consisting of 21 panels = £21,179.43
- Contribution from Climate Change Fund – 50% match-funding = **£7,059.81**

Total Savings:

The installation of the 3 solar photovoltaic (PV) systems at the schools will:

- generate approximately **9,876 kWh** per year of electricity from a fossil-free source
- save approximately **5.37 tonnes of CO₂** per year, which will contribute to reducing the carbon emissions of the Borough
- save the 3 schools approximately **£618** on their electricity bills and generate approximately **£4,428** through income from the Feed-In Tariff per year.