



RE:FIT Projects Tranche 1: Allhallows Multi Storey Car Park - Solar Photovoltaic Panels



Background to the RE:FIT programme

Bedford Borough Council is working in partnership with Mitie to install a series of energy conservation measures and renewable energy technologies in a number of Council buildings. Mitie guarantees the energy and carbon savings to be achieved over the lifetime of the energy performance contract. One of the sites in Tranche 1 of the RE:FIT programme is the Allhallows Multi Storey Car Park.

Project Details and Savings

Solar photovoltaic panels (solar PV) have been installed on the flat roof on the unused upper deck of the car park, helping to reduce the car park and the public toilets electricity consumption and to generate an income through the Feed-in Tariff (FIT) scheme.

The 49.82kW system, comprises of 212 panels rated at 235W each, split across 3 arrays on the upper decks of the car park. It is estimated that the system will generate around 40,000 kWh/annum, saving approximately 20,000kWh/annum (£1,964/annum). The income from the FIT is estimated to be £5,118 plus £883 export per annum. Together, the total financial saving is estimated to be around £7,965/annum.

The carbon saving will be 10,304 kgCO₂/annum.