

public sector st. martin's school

The school required a sizeable solar photovoltaic system to add to their existing renewable energy portfolio. They had already invested in ground source heat pumps to heat an annex, and solar thermal panels to provide hot water for the toilets and wash areas.

The sundynamo® 6.5KWp system provided the school with a powerful array that produces an 5,800 KWh per annum and a avoiding over 4500kg of carbon emission.

The photovoltaic system used a series of Fronius IG 30 inverters, to convert the Direct Current (DC) produced by the array into Alternating current (AC) which can be either used by the school or fed into the national grid, reducing the schools electricity costs.

Additionally we provided the school with a weather station, display via a touch screen computer in the reception area, this graphically exhibits the ambient air temperature - solar array temperature - irradiation measurement (light intensity) - wind speed, as well as giving current energy generation of the sundynamo® system and the amount of electricity produced since commissioning.

All this information can be analysed using the bar charts and line graphs provided by the display enabling the staff and the children to produce statistics and historical data, for their environmental studies lessons. The teaching staff found this display a valuable teaching resource.

