

Bristol Airport

Technology: Solar PV Panels

System size: 36.04kWp

Annual Output: 36,880kWh

Annual CO2 savings: 22,128kg

In a significant step towards reducing its carbon footprint, Bristol Airport has switched to a 100 per cent renewable electricity supply and is exploring a number of clean energy options to generate their own clean energy on-site.

After winning an initial tender, a specialist team from Solarsense installed 106 PV modules within in a matter of days - with the dual challenge of working and moving materials whilst complying with strict airport rules and regulations.

As the panels were to be installed on a flat roof, the design engineers opted to use a Van der Valk ValkPro+, ballasted mounting system in order to preserve the integrity of the roofing material. This type of mounting system obviates the need to penetrate the roof - removing the risk of water penetration entirely.

A SolarEdge system was specified in order to meet a tender requirement for a fire safety gateway. This ensures that the PV system is automatically shut down to a safe voltage when the fire alarm is triggered or manually turned off via the emergency stop button, allowing firefighters to work safely in the event of a fire. Each 340W JA Solar module was fitted with individual optimisers to minimise the impact of minor shading.



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