



“ We are delighted with the result. It makes environmental sense and it makes financial sense - it is a success story all round.

**Tim Wilson, Head of Estates - Bristol Zoo Gardens**

## Bristol Zoological Society

Bristol, South West UK

**Technology: Solar PV**

**System size: 46.92kWp**

**Annual Output: 37,929kWh**

**Annual CO2 savings: 21,500kg**

Solarsense has been working with Bristol Zoological Society on their on-going renewable energy projects since 2011.

The zoo's solar portfolio currently helps to power the indoor animal enclosures, aquarium pumps and heat lamps.

The historical Bristol Zoo Gardens is a sensitive site which requires careful planning application. As part of the specification process the first system installed for BZS was designed with ultra-low reflection textured glass all-black panels. A bespoke edge baffle was also engineered to seamlessly bring the edges of the array down to meet the roof.

The original solar PV array was completed in December 2011. Roughly the size of a tennis court, the installation generates more than 37,000kWh of clean, renewable energy to power the veterinary department below.

The zoo has calculated that the original system will pay for itself within seven years, and will go on generating for at least another 20.

Since 2011 Solarsense has installed a further four solar PV systems for BZS and the organisation are now exploring solar carport options to improve their sustainable transport options.

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