

An Air Source Heat Pump & Solar PV Panels For Bank Farm Leisure & Caravan Park, The Gower



Bank Farm Leisure & Caravan Park is a family run leisure park situated on the beautiful Gower Peninsula with breath-taking views over Port Eynon Bay. The park offers a wide range of accommodation from cosy family self-catering holiday bungalows and privately owned caravan holiday homes to over 150 touring caravan pitches.

The Problem:

Running a large and diverse leisure facility means high running costs for heating and power. This was made worse by the fact that mains gas was not available on site so heating using LPG or oil was their only option.

The expense of heating the luxurious indoor pool using LPG and the ever-increasing electricity bills made the Richards family decide to look at how they could save money by using renewable technologies.

The Solution:

Charged with the task of bringing these bills down, WDS Green Energy's design team came up with two cost-effective renewable energy solutions.

Heating for the pool: To heat the pool to a cosy 25°C, WDS Green Energy installed a **22kW Dimplex air source heat pump**. Once up and running, this highly efficient heat pump instantly slashed the pool heating bills and removed the need for the old LPG heating system.

Electricity for the park: To tackle the high electricity use by the park, WDS Green Energy installed a **4kWp photovoltaic array** on the roof of the washrooms taking advantage of the above average yield of sunlight on the Gower coast.

The benefits:

Installing the air source heat pump has instantly made savings of an estimated 60% on running costs for heating the pool. The **22kW Dimplex air source heat pump** produces no emissions unlike the old LPG boiler, and maintenance and service costs have also fallen.

The **PV panel system** has helped slashed pounds from electricity running costs and Bank Farm are now benefiting even further from the electricity they produce through the Government-backed incentive scheme, The Feed-in Tariff, which pays them for all the electricity they produce for the next 20 years regardless of whether they use it or export it to the grid.

