

Case Study

Solar Powered Water Borehole System on the South Downs



At a glance

- South Downs National Park
- 176 metre water borehole
- Solar powered
- Experienced installer
- Ongoing service agreement

Objective

Our client contacted Nicholls to find a solution for 100 acres of grazing on the South Downs with no existing water supply.

About the project

Nicholls were contacted by a livestock farmer in West Sussex to provide a proposal for designing, supplying and installing a 176 metre water borehole system. Due to the farm's location, being situated on the top of the South Downs in an isolated position and with a lack of electrical supply, the water borehole is powered using solar PV (photovoltaic) panels.

Within the plant room there is a back up generator should it be required. The borehole water is collected in a 20,000 litre water storage tank. The system has been installed with a chlorine dosing unit to ensure the quality of the water. In addition to the water borehole system, Nicholls also laid approximately 4000 metres of water pipe and associated water troughs to ensure the distribution required for the client.

As part of Nicholls' commitment to customer service, Nicholls provides an annual maintenance service to the farm for the complete peace of mind.



"Working with Nicholls Boreholes on this project was a very positive experience. I found them to be extremely customer friendly and professional with a meticulous eye for detail. This was the first solar powered borehole pump that Nicholls had installed and a lot of research went in to deciding on the right equipment for the job. The site is isolated and is in the middle of the South Downs National Park. The borehole itself was deeper than anticipated and we also laid 4km of water pipe to supply livestock troughs. I would certainly recommend Nicholls to anyone thinking of installing a water borehole."

Client