CONTROL TECHNIQUES

GUARANTEED FREE WATER SUPPLY TO WINER

TXAKOLI BIKANDI WINERY, SPAIN | WATER & WASTEWATER

DRIVE OBSESSED

COMMANDER C200 DRIVES

USING NATURAL RESOURCES TO POWER AND CONTROL WATER MANAGEMENT IN AREAS THAT NEED IT THE MOST

In arid countries such as Spain and Turkey, Control Techniques Solar Pump Solutions have enabled areas, with either no or limited grid power supplies, to benefit from flow control applications. These provide essential water supplies that are environmentally friendly while minimising energy costs.

Overview

Txakoli Bikandi a small wine producer in Durango, Northern Spain, is a family-run business that has been producing wine for more than 50 years. They pride themselves on the quality of their products. To ensure continued success and to enhance their reputation in the production of top-quality products, they are committed to making continuous automation improvements at their vineyard, covering more than 30,000 m².

The Challenge

They needed a solution to enable them to take advantage of natural underground water, to raise it above ground level to a holding vat until it is needed in an area where no electricity source was available. Their two options were to make a big investment outlay to bring grid electricity to where it was needed or a more cost-effective method of using a solar pump solution, using drives and dedicated software that would enable them to harness the natural energy of the sun to run their pumps.

The Solution

Control Techniques' engineers in Spain set about designing a bespoke economical solution. Commander C200 drives equipped with intelligence integrated into its PLC and MPPT (Maximum Power Point Tracking) optimisation software meant an efficient solution could be achieved for standard pumping applications.

The solution enabled them to take advantage of solar energy to manage an autonomous operation, without the need for any additional elements, which would serve their needs for both water extraction and irrigation.

Another consideration was the distance the drive would need to be away from the submerged pumps. Control Techniques were confident their solution could effectively handle these types of issues. Txakoli Bikandi now has installed two Commander C200 drives working independently of each other, powered by solar panels, and each of them driving a pump submerged more than 300 m underground.

The Benefit

A clear commitment to eco-efficient solutions has realised:

- **Ability to harness the sun as a source of electricity**
- **Low-cost solution versus installing grid electricity**
- **Reduced energy and maintenance costs**
- **Guaranteed water supply**
- **Solution that can be customised to suit an application**
- **Easy set up**

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NO ONE KNOWS DRIVES LIKE WE DO.

Our drive obsessive representatives will drive you in the right direction and give you first class support whenever you need it.

For more information, or to find your local drive centre, visit:

www.controltechniques.com

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