

# SOLAR PUMPING ON A AGRICULTURAL SITE

**3 Tysilio Solar Stations (231 kWp)**

*Kirène (Sénégal)*



## KEY POINTS

- ◆ **231 kWp** (3TSS)
- ◆ Ground surface area of **1,650 m<sup>2</sup>**
- ◆ **A sophisticated control system**
- ◆ **A 110 kVA variable speed drive (VSD)**

## LISTEN...

*...To our client who has committed to change his cultivation methods and in particular to switch to a more sustainable agriculture. In this approach, he first targets to reduce his consumption of diesel which is used to power the irrigation pumps.*

## ADAPT...

*...A standard photovoltaic power plant for the specific application of high power pumping. A sophisticated control system allows the solution to optimise the use of solar power according to the customer's water requirements.*

## DEPLOY...

*...A new but replicable solution that meets the client's constraints. The 110 kVA pump operates during the day without the support of the diesel generator.*



## GAIN ENERGY

*The 231 kWp project avoids the use of almost 250 litres of diesel per day. That is more than 240 tons of CO<sub>2</sub> avoided each year.*

## CLIENT STATEMENT

*« We really challenged Tysilio with a high level project and new concept. Thus we made the first step to solarise our water-supply but without making any concessions on our high end pump-control system. The end result is a perfect hybrid solution for our water supply. »*

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