

**Delivering Quality, Performance, Reliability, Security and Savings****Reliable Renewables: Solar PV Solutions**

KIFFA HYBRID POWER PLANT

Mauritania, West Africa

Production: 1.3 MWp solar PV plant along with a 5MW thermal (LFO/HFO) plant

Total power: 6.3 MW including 1 300 kWp solar PV and 5 MW thermal plant

Commissioning: Spring 2018

Operations and Maintenance: SOMELEC



Hybrid Solutions Deliver Energy and Cost Savings for Mauritania

The Mauritanian utility (SOMELEC) issued a call for tender to which the pool Vergnet-ABC Diesel was appointed to deliver the hybrid power plant project in Mauritania. It is the first of its kind in this West African sub-region. The project integrates Engineering, Procurement and Construction (EPC) of a 1.3 MWp solar PV plant along with a 5 MW thermal (LFO/HFO) plant. The power plant is located on a new site close to the town of Kiffa (third most important town in the country) and will supply both towns of Kiffa, Guérou and some surrounding villages in between these two towns. The new plant will replace the existing power plants in the two towns (diesel generators) and is designed as the sole power plant on Kiffa's isolated electrical grid.

To achieve this innovative project, Vergnet (pool leader) entered a partnership with ABC Diesel. The implementation of the project required the expertise and commitment of both companies to deliver highly advanced renewable energy solutions.

Solar PV/Thermal Hybrid Power Solutions – Investing in Renewable Energy

To enable a hybrid approach, Vergnet is in control of the entire civil works of the project and the procurement and erection of the solar PV plant, whilst ABC DIESEL supplies and installs the thermal plant along with the 33kV substation.

The hybrid power plant features the Hybrid Wizard™ real-time controller developed by Vergnet, which ensures a maximum penetration of photovoltaic power on an isolated and low capacity electrical grid. It also fulfills, in partnership with ABC Diesel, admissible working conditions for the new thermal plant in terms of minimum loading and spinning reserve management.

The advanced solar PV farm will control output and will benefit the population by supplying more than 2 000 MWh of energy, and saving 400 tons of fuel per year.

Making a Difference in Kiffa

“The unique partnership with ABC DIESEL enables us to provide Mauritania with an advance renewable energy solution, the first of its kind in this region. With Hybrid Wizard™ incorporated into the sustainable approach, the isolated and low capacity electrical grid will receive a maximum penetration of photovoltaic power, as the system is controlled in real time. The hybrid approach, encompassing a solar PV plant and a thermal plant, will produce top line renewable results for this part of West Africa.”

Marc Rivard, Vergnet’s Sales Director



Reliable Renewables

Vergnet is a global renewable solutions company with a successful track record in providing high performance, reliable and affordable clean energy solutions for companies around the world.

Advanced renewable solutions, encompassing wind, solar PV and hybrid technology, make Vergnet a recognised partner of choice throughout the world.

The company leverages a 25 year heritage in delivering power quality, performance and availability of supply in remote, isolated environments with extreme climatic conditions and limited electricity infrastructure.

With a strong focus on design, manufacturing and engineering innovation, Vergnet provides adaptable renewable solutions that are highly customised to both the local environment and the specific needs of the project.

Vergnet’s uniquely designed technology is adaptable for grid-connected as well as off-grid operations and has been developed specifically for extreme weather conditions providing reliable, efficient and scalable energy solutions. Vergnet operates in over 40 countries and has 166 employees in 10 offices.

Developing adaptable and affordable solutions that cut energy costs is at the heart of everything we do.

