IBC SOLAR

Have sun!

Rensol Africa

Success Story

Tissue Culture Laboratory

RENSOL AFRICA

Rensol Africa

Lab Power

Background & Challenge

The client was facing significant challenges due to their high electricity bills and the need for an uninterrupted power supply. Their operations depended heavily on the continuous functioning of expensive laboratory equipment, which could not afford to be damaged by frequent power failures. This situation posed a substantial risk.

In response to these challenges, the client turned to Rensol Africa, a renowned leader in the renewable energy sector. Established in 2010, Rensol Africa has built a strong reputation for excellence, with a portfolio that includes over 300 sites across the continent. These sites feature a variety of energy solutions.

By partnering with Rensol Africa, the client was able to achieve both cost savings and operational security, demonstrating the transformative impact of sustainable energy solutions in addressing complex energy challenges.

Project Background

The lab's peak load does not exceed 180kWp, and they rely on a 315kVa generator for backup power. In Phase 1, Rensol's goal was to ensure a seamless transition between the Eskom grid and the generator. Additionally, by integrating solar power, they aimed to allow the client to operate for several hours during the day without needing to activate the generator during power interruptions. This approach not only optimized energy efficiency but also reduced reliance on the generator, thereby lowering operational costs and enhancing sustainability. Rensol put as much solar PV as possible on the roof and then a customised carport, which will expand next year. They build it all in a containerised solution away from any buildings with climate control and monitoring.

180kWP	1	1	215kWh
LONGi 555w PV Panels	Atess PCS250	PBD250	Solar MD HV Batteries

About IBC SOLAR

IBC SOLAR is a leading full-service provider of energy solutions and services in the field of photovoltaics and storage. The company offers complete systems and covers the entire product range from planning to the turnkey handover of photovoltaic systems. The range includes energy solutions for private homes, trade and industry as well as solar parks. IBC SOLAR is a project developer and general contractor in these areas, and plans, implements and markets large-scale SOLAR projects worldwide. IBC SOLAR works closely with a network of Premium Partners who ensure competent and high-quality installation of the systems worldwide. IBC SOLAR was founded in 1982 in Bad Staffelstein by Udo Möhrstedt and is now a pioneer in the energy revolution in over 30 countries.