

MITOBOTO FARMING COMPANY

A key player in Tanzania's rising poultry industry

Saves over
5,000 liters of
 diesel per year

Saves
50 tonnes
 of CO₂
 per year

87 kWp
 solar
 power

The Mitoboto Farming Company is a leading provider of poultry products, located in Tanzania's Kibaha Coast region. Nearby Tanzania's urban area Dar es Salaam, Mitoboto serves a large local population. The farm also harvests and sells a wide range of fresh fruits and vegetables, while also producing organic products such as nut butter spreads.

Mitoboto is part of the poultry industry that is expected to have a bright future in Tanzania. Many providers and farms are responding to increasing consumer demand, rapid technological change and supportive policies. It's easy to see why this progress is taking place throughout the country. Poultry represents an abundant and quality source of nutrition for the emerging Tanzanian urban middle class. It creates a solid income stream for farmers and it has the potential to develop into a strong foreign exchange commodity in the coming years.

CHALLENGE

Agrofoods Processing powers the economy, but what powers them?

In Tanzania, agrofoods companies are at the center of employment and economic growth. That makes dependable, pragmatic and cost-effective electricity vital for Mitoboto's and the country's success. Although Mitoboto is near Dar es Salaam, their grid connection is unreliable with erratic connectivity and several outages per day impacting poultry livestock and revenue.

Due to the unpredictability of grid power, Mitoboto relies on diesel generators to ensure consistent energy. But generating the power necessary to operate its facilities consumes large quantities of diesel fuel, which comes at a significant financial

cost. At the same time, Mitoboto is strongly committed to establishing sustainable, eco-friendly practices and reducing carbon emissions, both from grid and diesel power.

Amid these challenges, Mitoboto aims to further penetrate new markets. The company invested significant time and money into constructing new buildings and chillers, and adding high-quality packing machines, pumps, feeders and other equipment. Their goal is to process 7,000 chicks per month for sale at local Tanzanian markets. To reach these ambitious goals Mitoboto must efficiently and economically power its growing operations.

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SOLUTION

Planting solar modules, harvesting reliable energy.

After these substantial updates, it was time for Mitoboto to examine its energy infrastructure. The state-of-the-art facility, running at full capacity, requires approximately 200 kW of reliable power, generated 24 hours per day, 365 days per year. With a diesel generator and a grid connection already in place, Mitoboto turned to REDAVIA solar power to create a hybrid system capable of providing consistent, reliable energy at an affordable price.

REDAVIA worked closely with Mitoboto's management to assess and analyze the facility's energy requirements, and to optimize the size of the solar farm.

After the thorough evaluation was completed, REDAVIA pre-assembled and transported an 87 kWp solar farm to Mitoboto. In less than two weeks, the solar plant was installed on 1,250 square meters of Mitoboto's property. The solar energy system quickly integrated into the company's power system and created an efficient, cost-effective hybrid system.

REDAVIA's monthly payment model allows Mitoboto to invest its capital in scaling up its poultry farming operations, while providing significant monthly financial savings, freeing up further cash to invest in core business growth. In addition, REDAVIA provides Mitoboto with on-site support, 24/7 technical monitoring and operations services to ensure that solar panels – and hybrid system – run exactly as needed.



**Minimal
capital
investment**

**> 130,000 kWh
clean power p.a.**



BENEFIT

Harnessing the power of the sun.

At Mitoboto's facilities, when running at full capacity, the REDAVIA solar farm produces over 130,000 kWh of clean energy per year, substituting grid and diesel electricity.

Hence, the company immediately saves over 5,000 liters of diesel per year and significantly reduces its electricity bill from the national utility TANESCO. While the financial savings are robust, the environmental impact is also impressive. Mitoboto is expected to save around 50 tonnes of CO₂ per year, both through grid and diesel power substitution.

Partnering with REDAVIA gives the company complete trust in their energy system. They can operate fast and efficiently, scaling as needed, while also taking steps toward achieving their environmental goals. For Mitoboto, the future is as bright as the overhead sun.