

Introduction

A 2.4MWh solution is one of three BESS's installed at Louma Boerderij in Thabazimbi. This system, installed on their 'Fairfield B' farm comprises 3 x air-conditioned 12m containers that collectively house the batteries and balance components, all connected to a 2MWp PV array.

In the interest of energy security and cost savings, the installation was given the green light, which has since taken the farm to go completely off the grid.

Site Statistics

Customer	Louma Boerderij
Site location	Limpopo, South Africa
Customer Segment	Agricultural
Installer / EPC	Thaba Solar
Commissioned	December 2021

Application

- ☒ Energy Arbitrage / Energy Cost Management
- ☐ Power Quality / Reliability
- ☒ Peak Shaving
- ☒ Integration with Renewable Energy Sources
- ☒ Energy Backup Source



Installed Solution

Qty	Item
2	Battery: Freedom Won LiTE Industrial 1200/960 HV+
3	Inverter: ATESS PCS500 inverter cabinet
30	Inverter: SMA Sunny Tripower 25kVA 3 phase PV inverter
3	ATESS 500kW bypass cabinet
3	ATESS 500kW transformer
4	ATESS PBD250 charge controller

Scope of Work
<ul style="list-style-type: none">• Research• Conceptualisation• Supply• Install• Training