

CASE STUDY

aQuellé

Partner (EPC)

Clackson Co.

Project Completion

June 2025

Region

KwaZulu-Natal, South Africa



In December 2023, Clackson Power initiated discussions with Kathea Energy to develop a large-scale renewable energy project in South Africa. The initiative combined solar PV systems with advanced Battery Energy Storage Systems (BESS), rolled out across two plants in KwaZulu-Natal.

This project was designed to harness clean energy while providing a reliable, sustainable, and flexible power supply through integrated storage and hybrid backup capabilities.

Project Highlight -

Total Grid-Tied Capacity 5.2MW

Plant 1 Equipment

- 1.6MW Rooftop Solar PV
- 16 x Huawei SUN2000-100KTL Smart String Inverters
- 2MW Megarevo PCS
- 5.1MWh Lithium Valley High Voltage Containerised Storage
- ENcombi ECPVXL
- 4 X 1MW Diesel Generator Integration

Plant 2 Equipment

- 3.6MW Rooftop Solar PV
- 36 x Huawei SUN2000-100KTL Smart String Inverters
- 2 MW Megarevo PCS
- 5.1 MWh Lithium Valley High Voltage Containerised Storage
- ENcombi ECPXL
- 4x 1M Diesel Generator Integration

Impact & Sustainability

This renewable energy project enables aQuellé to significantly reduce its carbon footprint while ensuring a stable and cost-efficient power supply for its operations. By integrating solar PV with advanced storage, the plant can sustainably meet its energy needs, support water production with minimal environmental impact.