

October 2024

C&I SOLAR HYBRID POWER SOLUTIONS

WE DESIGN AND INSTALL CUSTOMIZED TURNKEY ENERGY SYSTEMS THAT FOCUS ON YOUR
POWER NEEDS

BRANDS YOU CAN TRUST – EXPERT ADVICE - EXPERIENCED TEAMS – EXCELLENT WORKMANSHIP

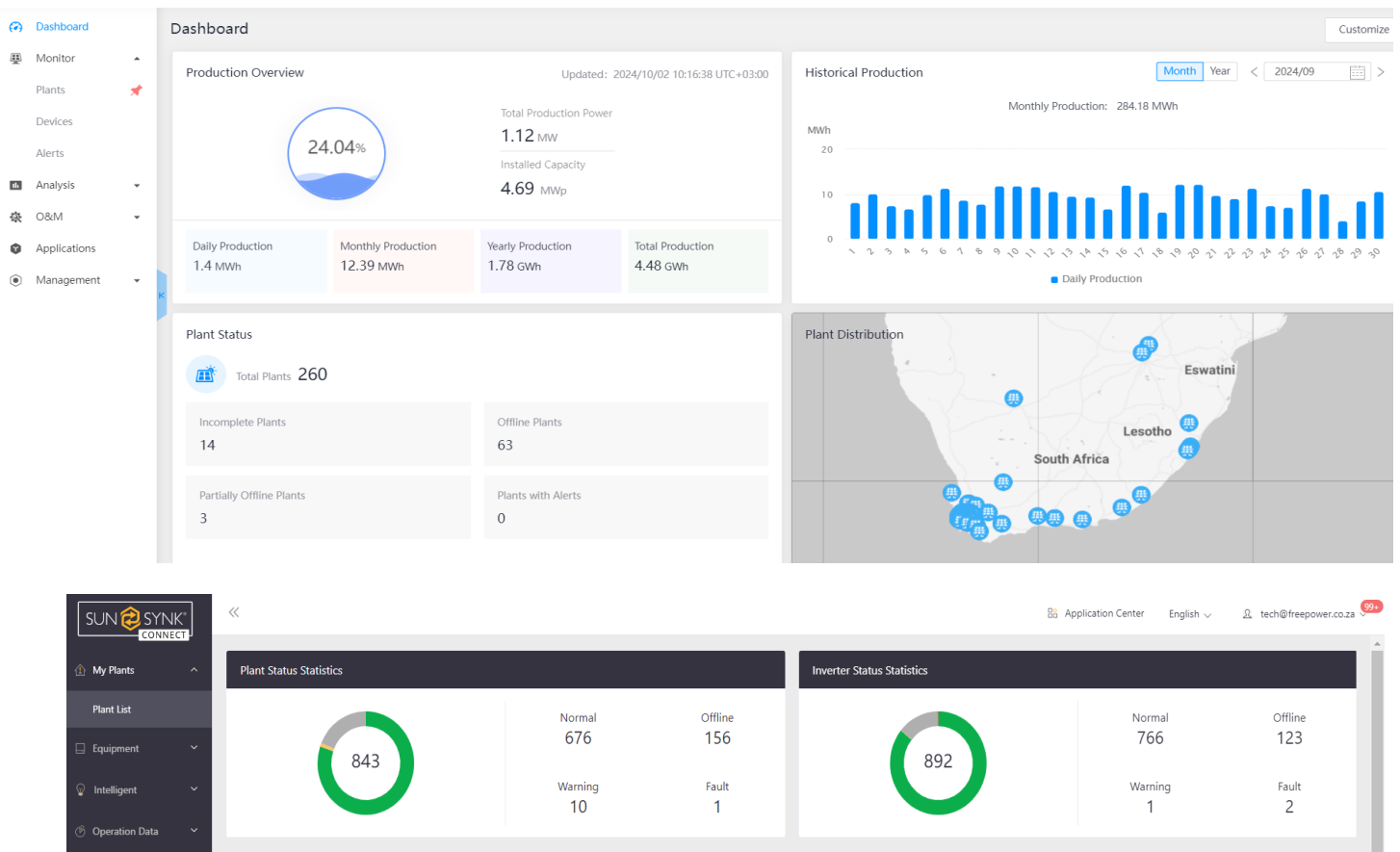


What Does Blue Sun Energy Have to offer

As a Cape Town Based EPC, our strength lies in our experience in the industry, our national network and long partnership with **Freepower**, which holds distribution agreements with **Deye and Sunwoda** as preferred provider for **Inverters** and **HV Batteries** and **Energy Stations**. Together we offer:

- Renewable Energy Systems designed for Energy Savings and Power Security
- Specialist Engineering, Electrical and Solar Installation Teams
- Expert procurement and supply chain structures
- Experienced Project Management
- Clear focus of meeting production targets and energy savings for our clients
- Aftersales Service and support with workmanship warranties on all systems and equipment
- Training and certification for local technicians and engineers
- Compliancy with Electrical and Solar By-Laws

843 Sunsynk and 260 Deye sites currently under management.
Live geographic and performance reporting to our commercial clients



The Future of Solar Hybrids in 2024

The key success of hybrid power supplies has been the advances of High voltage Lithium Packs

- Higher voltage allows lower current to be used in battery charging.
- Capable of covering quick demand surges from starting equipment (**for energy security structures**)
- Faster Charging and discharge Rates (**for TOU Peak Shaving Solutions**)
- Remote Portal monitoring and reporting



Sunwoda



Focus on new energy industry for **27** years



- **Turnover:** 2021 5.8 billion USD
2022 8 billion USD **38%** ↑
- **Production :** 13 Bases
2022 80Gwh
2023 246Gwh
2025 500Gwh
- China **Top 5** LFP Cell Brand
- Global **Top 10** Power battery Player

Founded: 1997

Staff : 50,000+

Listed on Stock: 2011

Stock No: **300207**

www.sunwoda.com

Partners



Storage



EV Cells



50KW to 500KW RANGE: Our successful partnership with Sunwoda (fifth largest battery manufacturer in China) As an official distributor enables us to facilitate direct deliveries from the factory to sites. This allows for significant discounts and guaranteed performance and extended warranties. (10 Years with Deye 50KW inverters and Sunwoda HV Batteries)

C&I Solution-1: 60KWh Energy Station



Features:

- Easy to install and deploy with large space utilization.
- Unique modular design & flexible function configuration.
- With self-use, peak shifting, forced charging & discharging and other working modes.
- Strong scalability, simple & convenient expansion on both AC and DC sides.

SPECIFICATION

Module	3060	5060
Rated voltage	614.4V	
Voltage range	556.8~662.4V	
Rated energy	60kWh	
Cycle life	6000 times	
Max.PV input power	39kW	65kW
AC rated input/output power	30kVA	50kVA
Voltage	3L/N/PE; 230/400V	
Frequency	50/60Hz	
Dimension (W*H*D)	1200*2160*750mm	
Warranty	10 years	
Expansion	Support in parallel up to 150kW/180kWh	
Protection grade	IP55	
Cooling Method	Air conditioner	
Fire protection	Fire extinguisher	
Certification	UN38.3,CE,IEC62619 ,CEI 0-21,VDE-AR-N 4105 ,IEC 62109	
Environment temperature	-30°C ~ 50 °C	

Utility-Scale Energy Storage

Sunwoda offers utility-scale energy storage solutions with installed capacities from 344kWh to 6.88MWh, which can meet the needs of different scale scenarios.

[View More](#)



SUNWODA
ENERGY

Unique Components

BMS Comms Port



Fire Suppression System



Smoke Detection Device



Recent Projects 2022-2024



PETROSTOP, EAST LONDON
360kWp Solar PV Grid-Tie with
4x100kW Goodwe
2024



GROVE PRIMARY, CLAREMONT
100kW Deye HV with 102kWh Sunwoda
HV Lithium and 25.5kWp Solar PV
2024



SKY VILLA, PLETTENBERG BAY
100kW Deye HV with 120kWh Sunwoda
HV Lithium
2024



79 ROELAND, CAPE TOWN
50kW Deye HV with Sunwoda HV
Energy Station, 25kW Goodwe Grid-Tie
and 75kWp Solar PV
2024



BUNGLAOW, PLETTENBERG BAY
150kW Deye HV with 184.3kWh
Sunwoda HV Lithium
2024



HARRINGTON STR, CAPE TOWN
300kW Deye HV with 360kWh Deye HV
Lithium
2024



VREDENBERG MALL
250kW Deye HV with 307kWh
Sunwoda HV Lithium
2024



GAMMA CAMP, NORTHERN CAPE
50kW Deye HV with 63kWh Sunwoda
HV Lithium and 29.3kWp Solar PV
2024



MILTON'S WAY, STEENBERG
100kW Deye HV with 102kWh Sunwoda
HV Lithium and 62.1kWp Solar PV
2024



AFRIKELP, CAPE TOWN
150kW Deye HV with 184kWh Deye HV Lithium
2023



CLAREDON SCHOOL, EAST LONDON
100kW Deye HV with 200kWh Deye HV Lithium
2023



REDDAM COLLEGE, DURBANVILLE
150kW Deye HV with 360kWh Deye HV Lithium
2023



GLC DEVELOPMENTS, DURBANVILLE
64.2kWp with 96kW Sunsynk Hybrid & 102kWh Revov Lithium
2023



BP GARAGE, FRANSCHOEK
73kWp with 100kW Deye HV & 194kWh Deye Lithium
2023



LONDON RD, BRACKENFELL
49.5kWp with 50kW Deye HV & 62kWh Deye Lithium
2023



KLEIN CHAMPANGE, FRANSCHOEK
28.6kWp, 48kW Sunsynk & 100kWh Revov Lithium
2023



ST MARTINI GARDENS, CAPE TOWN
56kWp with 48kW Sunsynk & 246kWh Revov Lithium
2023



AUBERGE CLERMONT, FRANSCHOEK
24kWp Ground-Mount with 36kW Sunsynk and 70kWh Revov
2022

Some of Our Clients and Partners

