

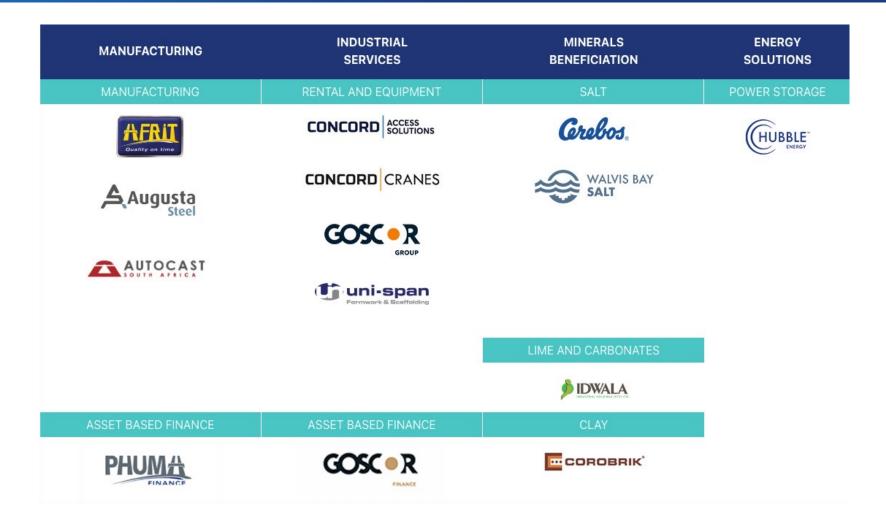
POWERING AGRICULTURE

ADVANCED ENERGY STORAGE SOLUTIONS

HUBBLE ENERGY a Bud Group Company



Hubble Energy is proud to be a part of the Bud Group, a leader in manufacturing, industrial services, minerals beneficiation, and energy solutions.



HUBBLE ENERGY



Hubble Energy designs, engineers and supplies lithium batteries for the solar, renewable and power back up industry in South Africa, Sub Saharan Africa and Europe.



+ LOCAL R&D

Our in-house R&D engineers and software developers solve unique energy challenges for South African and broader African markets while remaining at the forefront of ener- gy technology.

+ ON THE GROUND EXPERTISE

With 30 years of combined industry experience, our team is equipped to provide rapid assistance and remote diagnostic services.

+ QUALITY & RELIABLE PRODUCT

Our products combine industry-leading technology with local R&D expertise, resulting in worldclass solutions tailored to local challenges.

SALES, SUPPORT AND REPAIR CENTRES ACROSS SOUTH AFRICA





ENERGY IN THE AGRICULTURAL SECTOR



Due to the high dependence on diesel fueled generators and the increasing cost of energy, farmers are looking at alternative, sustainable energy sources.

- + Energy security, reduced disruptions
- + Predictable & manageable energy costs
- + Improved sustainability for access to green markets

"Farmers are already reporting huge losses as processing machinery, irrigation equipment and other machinery are damaged and come to a standstill due to power outages."

- AGRI SA

WHY CHOOSE HUBBLE FOR AGRI?



- + Off grid, on grid, solar ready
- + World class product with local expertise
- + Local support, training and commissioning
- + SLA & comprehensive warranty

- + Remote monitoring & management via EMS*
- + Proactive monitoring services
- + Scalable and bespoke solutions

"We aim to empower the agricultural sector to independently manage their energy storage and production, with leading technology, that ensures product quality and cost reduction"

- Marius Vincent, CEO

LOCAL INNOVATION // INTERNATIONAL CERTIFICATIONS	
UN3536* & UN38.3	Internationally certified for safe transportation
NRS 097*	Approved for South African grid connection
IP54*	Internationally certified for outdoor use
CE**	Adherence to European health, safety and environmental requirements

HUBBLE ENERGY



COMMERCIAL, INDUSTRIAL & AGRICULTURAL SOLUTIONS

Scalable & Bespoke Energy Storage Sytems

20.4kWh - 1290kWh



HUBBLE HIGH VOLTAGE RACKS (1.0C)



The Hubble High Voltage System uses innovative smart technology to bring you an easily upgradeable solution. Featuring an intelligent touchscreen display and Wi-Fienabled monitoring for both live and his- torical remote monitoring & management.

Ranging from 204-768V and built with a 1C rating, the units can be paralleled with up to 8 ESS systems per string with full communications.

- + 1C Rating
- + Smart BMU
- + Tested and certified
- + Intelligent touch screen display
- + Remote firmware updates
- + Remote monitoring, management and diagnostics
- + Modular, buildable design (from 20.4-614.4kWh BESS storage)



HUBBLE HIGH VOLTAGE RACKS (0.5C)



The HV-768 features a modular, easy to install design and an intelligent touchscreen display for both live and historical remote monitoring & management.

Built with a 0.5C rating, the units can be paralleled with up to 10 ESS systems per string (up to 2.15MWh) with full communications and remote monitoring.

- + 0.5C Rating
- + Tested and certified
- + Fire suppression system
- + Superior 10 000 cycle life
- + Advanced cell balancing
- + Modular design, easy to install
- + Intelligent touch screen display
- + Remote monitoring, management and diagnostics via EMS



HUBBLE ENERGY CUBE



In the day to day of diesel costs and high noise levels, Hubble Energy introduce the silent generator, the Energy Cube.

The Cube, an all-in-one solution (107kWh & 215kWh), can be used as a generator replacement and contains a fire suppression system as well as a world class EMS for remote monitoring and management.

- + IP54
- + Silent
- + Tested and certified
- + 10 Year warranty (Ts & Cs Apply)
- + Service level agreement
- + Fire Suppressant system
- + Easy installation and no rigging required
- + Intelligent operation and management via EMS
- + Remote monitoring, management and diagnostics via EMS



HUBBLE CONTAINER SOLUTIONS



Agricultural areas face challenges related to connectivity, reliability and remote access.

The Hubble container solution is an allin-one solution featuring the modular Hubble High Voltage 0.5C rack, the IP54 rated system can withstand tough conditions. Hubble offers a local team can provide on-site assistance and commissioning.

- + IP54
- + Scalable
- + Tested and certified
- + Service level agreement
- + Superior 10 000 cycle life
- + Fire detection and Suppressant system
- + Insulated walls and temperature controlled
- + Intelligent operation and management via EMS
- + Remote monitoring, management and diagnostics via EMS

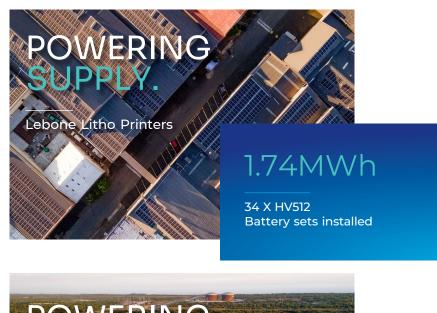


A TRUSTED TRACK RECORD



Our installations range from game lodges to salt pans









204kWh

4 X HV512 Split into 2 X battery sets



2.211MWh

76.8V 120ah 1C battery 24 X 92.16kWh battery racks