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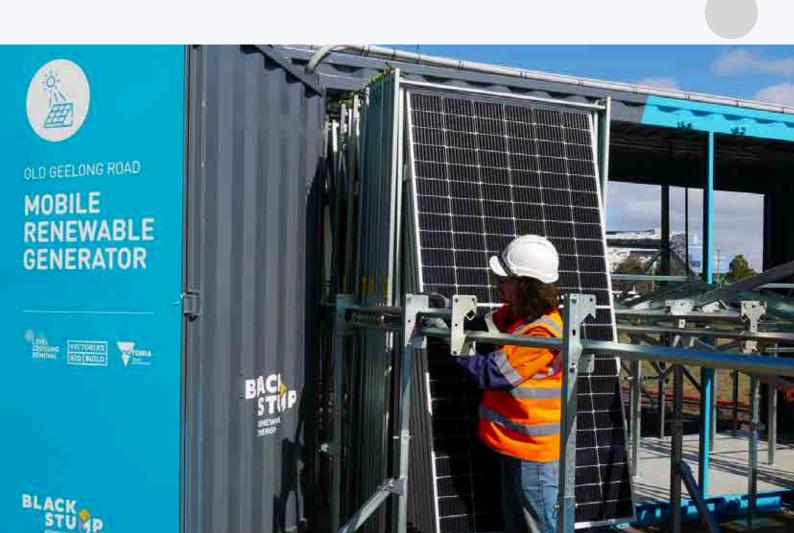


Scan to view case studies



The proven alternative to dirty diesel:







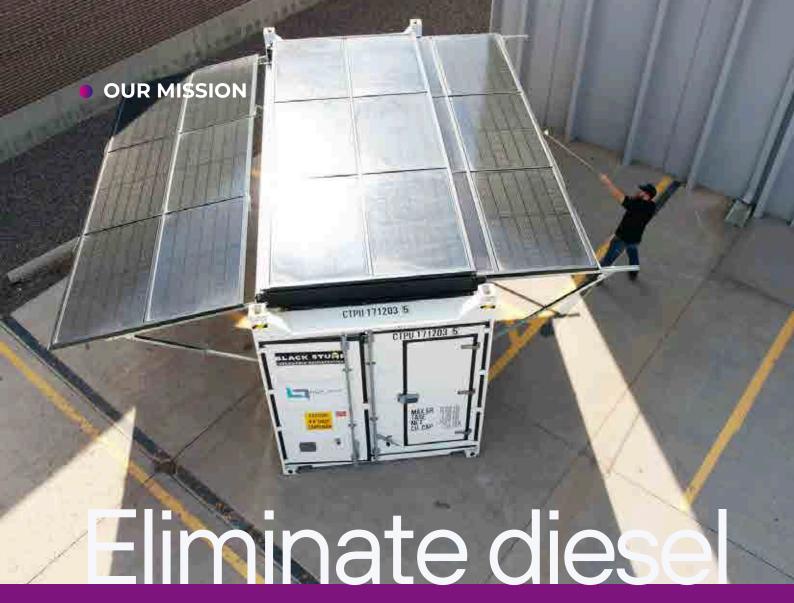
Clean energy for commercial and impact industries



AQUACULTURE

EVENTS

DEVELOPMENT



Our mission is clear: to replace diesel generated power. Diesel fuel contributes massively to the world's CO₂ emissions. Organisations will never achieve net zero with diesel still in place. By reducing the harsh environmental impacts of diesel-powered electricity generation, Black Stump Technologies makes a positive impact for people and on the planet. By providing access to sustainable technology solutions, we are able to empower organisations, communities, and individuals with the ability to change their economic and social circumstances.

UP TO 70%

Reduction in operating costs

UP TO 90%

Reduction in CO₂ emissions

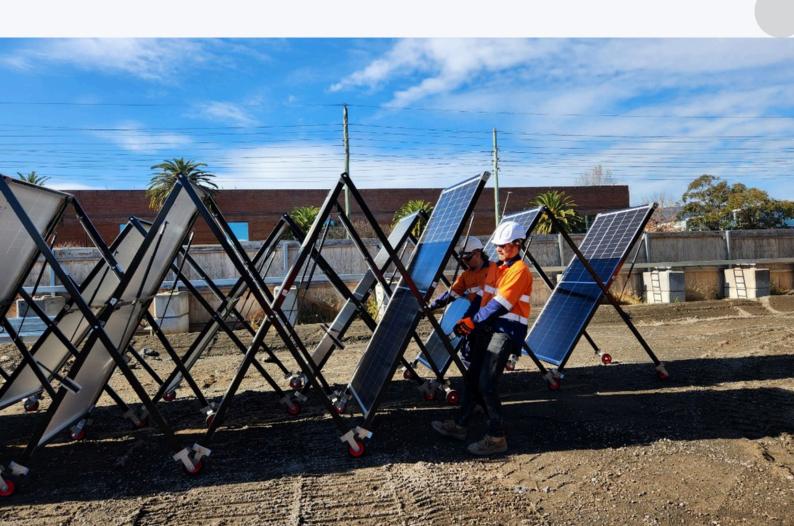
100% reduction

Achievable depending on individual use cases



Mobile, modular, scalable and rapidly deployable

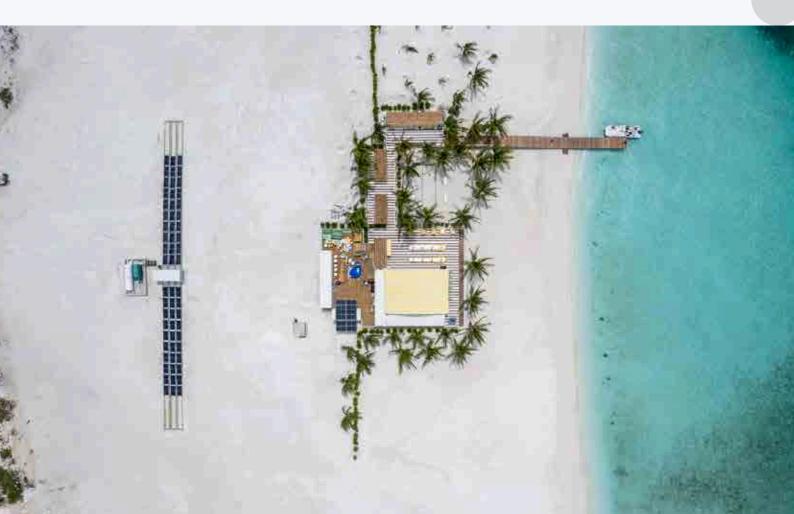
We specialise in the provision of mobile renewable energy and refrigeration technology which can be rapidly deployed in remote, regional and urban environments within 30 minutes. Solarators® provide clean and renewable power to solve the issues of refrigeration, clean water, food hygiene, sanitation, medical storage, and cold supply chain in on-grid and off-grid locations. These robust, reliable, and turnkey solutions are used across industry and can be optimised to suit a variety of requirements, such as diesel logistics issues, tight space restrictions, or complex power consumption patterns.



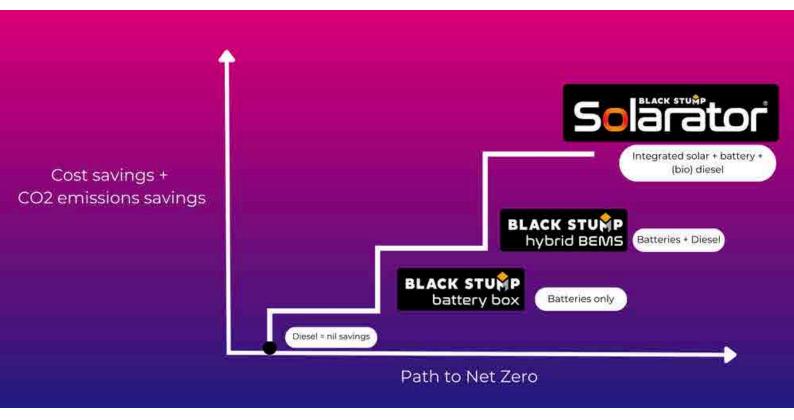


Leverage the power of data and evidence-based methodology

With years of expertise in the field and use cases in various industries, Black Stump Technologies leverages performance data and a proprietary modeling tool in forecasting your Solarator® performance against diesel as well as predicting financial and environmental savings. Our clients are also equipped with reporting capabilities and performance analysis of their Solarator® units. Through our secure portal, clients can generate custom, downloadable reports in minutes saving them time, money, and effort spent on data analysis.



OUR PRODUCTS



Renewable solutions at every stage of your net zero journey

With our Solarators® leveraging the power of clean solar energy, your organisation will continue to increase operational and fuel cost savings while increasing the amount of carbon emissions saved. But we also understand that businesses may be at different stages of energy transition so ditching diesel can be a long journey.

Hence, Black Stump Technologies offers products that meet your needs wherever you are on your journey. Our Solarators® replace a wide range of diesel gensets from 12kVA to 150+ kVA. We also offer hybrid BEMS (battery + diesel) units. Our hybrid BEMS and REMS units can be configured into a microgrid or a mobile solar farm if combined with Black Stump's solar arrays. And if you're simply after a battery energy storage system, we have 50kW to 1000kW battery boxes, too.

ENERGY RANGE



Our Solarators® suit a variety of site conditions and industries that need to replace a wide ranging size of diesel generators. Whether you're dealing with tight space issues, difficult diesel logistics, unique site power consumption, or harsh weather patterns, we have the ideal Solarator® solution that will save you money and reduce emissions. We can also adapt and custom build a Solarator® for very specific requirements like an office solution, morgue, mobile data centre and the like.





SOLAR + BATTERY + (BIO) DIESEL



MOBILE & MODULAR



OPERATIONAL IN LESS THAN 30 MINS



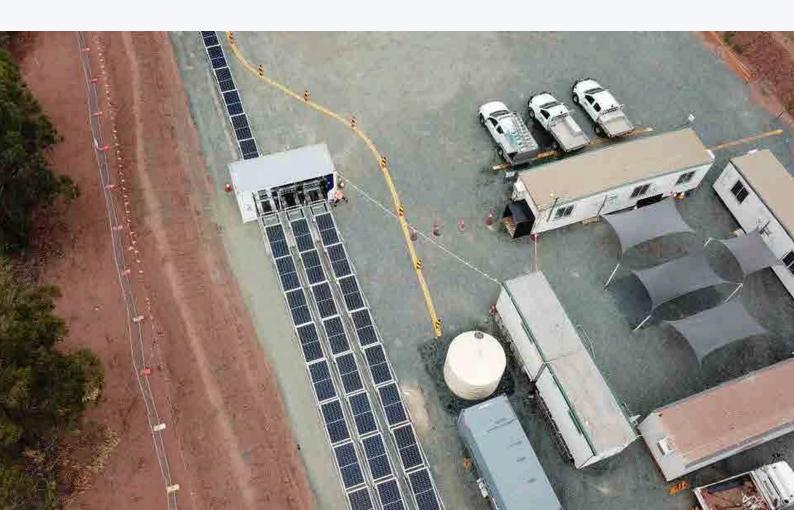
OPTION TO ADD SOLAR ARRAYS



SIGNIFICANTLY REDUCED NOISE



DOWNLOADABLE ESG REPORT IN MINUTES





Nominal output kVA	53
Nominal output kW	43
Payback (years)	1 to 1.4
Fuel savings p.a.	\$149,000
CO₂ savings p.a.	200,000 kgs

The Fold-out range is designed for sites and locations with sufficient space for a full roll-out of solar panels. These robust Solarators® are portable power stations that provide continuous power, 365 days a year, 24/7 in all conditions for your specific requirements.

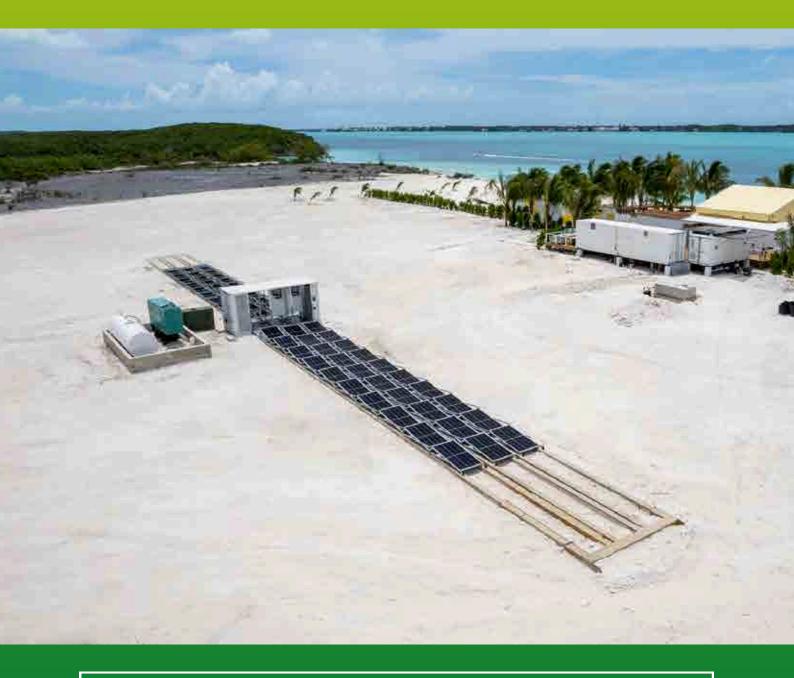






Nominal output kVA	76
Nominal output kW	61
Payback (years)	1 to 1.4
Fuel savings p.a.	\$179,000
CO₂ savings p.a.	240,000 kgs

As market leaders with years of proven experience in the field, our Fold-out range is designed for sites and locations with sufficient space for a full roll-out of solar panels. Our Solarators® are reliable and portable power stations that provide continuous power, 365 days a year, 24/7 in all conditions for your specific requirements.









Nominal output kVA	27
Nominal output kW	21
Payback (years)	1 to 1.4
Fuel savings p.a.	\$88,000
CO₂ savings p.a.	118,000 kgs



Our Solarator® compact range is designed for space-restricted locations that need either full or partial off-grid power generation. This range comes with a different configuration of solar, batteries, and (bio) diesel. Our technology's exceptional performance and reliability is guaranteed to provide power 24/7, 365 days a year.







Nominal output kVA	53
Nominal output kW	43
Payback (years)	1 to 1.6
Fuel savings p.a.	\$95,000
CO₂ savings p.a.	128,000 kgs



This solar optimised hybrid generator has stable and green off-grid power supply. Businesses can expect high scalability and expansion potential as well as realisable fuel and carbon savings. It is easily transportable by road, rail, or sea and is operational within 30 minutes of delivery.







Solarator
compact 75+

Nominal output kVA	76
Nominal output kW	61



Nominal output kVA	106
Nominal output kW	84

These models come with bigger batteries compared to our fold-out range, and a more powerful back-up (bio) diesel generator combined with solar panels. Solar arrays can be added for more clean solar energy. Estimated payback period is between 1 to 1.5 years depending on use case.



Nominal output kVA	151
Nominal output kW	121





Nominal output kVA	12
Nominal output kW	10
Payback (years)	1.5 to 1.8
Fuel savings p.a.	\$44,000
savings p.a.	59,000 kgs

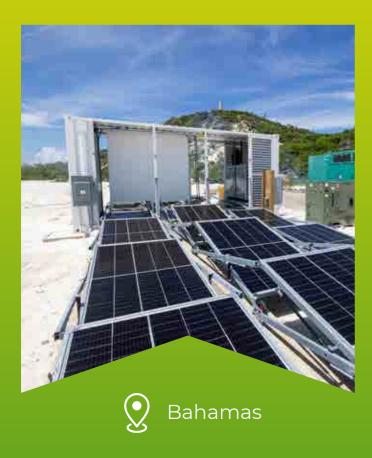
Smaller load requirements and space restrictions need creative solutions. Our Solarator® Mini is a solar power generator that sits on a box trailer or skid mounted mechanism that solves a lot of logistical concerns in small scale, temporary sites. This innovative design allows for rapid deployment, easy storage, and full mobility. Despite its size, our Solarator® Mini is built to industrial standards and comes with the same alchemy of solar, battery, and (bio) diesel configuration as the bigger Solarator® products ensuring robust performance and reliability 24/7, 365 days a year, in all conditions.

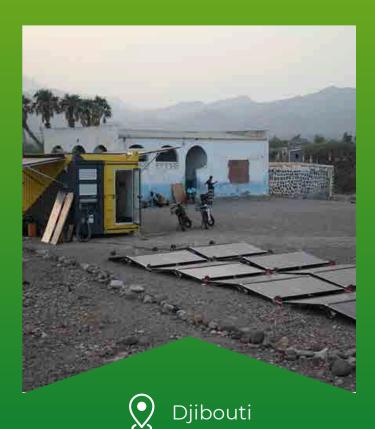




• SOLARATOR® DEPLOYMENTS

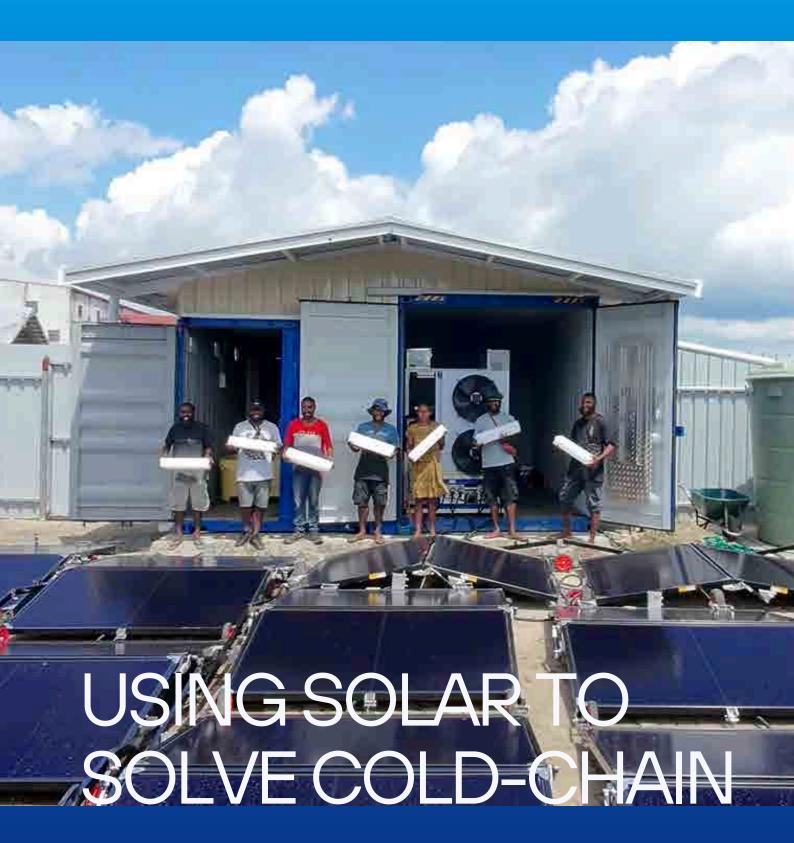








COLD-CHAIN RANGE



Our mobile Solarators® are specifically designed for high performance, temperature-controlled cold storage operations. Each mobile chiller, freezer or ice-maker is 100% solar powered with battery back-up requiring no fuel, generator or grid connection, giving you the reassurance of an uninterrupted and reliable power supply. The estimated payback period is often immediate. However, individual business cases will result in varying degrees of operational savings and returns.





NO FUEL, DIESEL GENSET
OR GRID CONNECTION
REQUIRED



MOBILE & MODULAR



OPERATIONAL IN
15 MINS



100% SOLAR POWERED



IDEAL FOR REMOTE COMMUNITIES



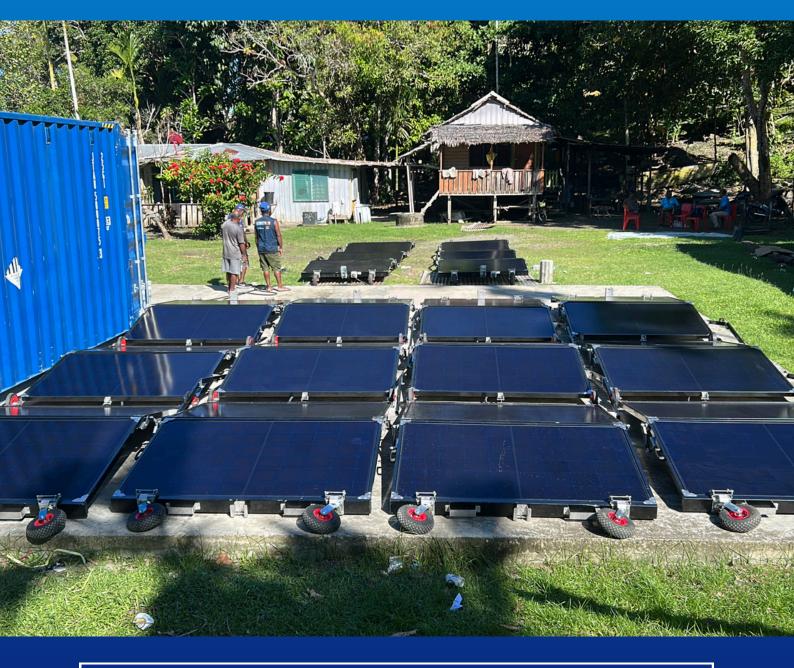
DOWNLOADABLE ESG REPORT IN MINUTES





Ambient operating temperature	5°C ~ 40°C
Water source	Manual fill
Fuel savings p.a.	\$120,000
CO ₂ savings p.a.	160,000 kgs

Our Solarator® version of a commercial, industry-grade ice maker can produce up to 600 kgs of flake ice per day, or can be configured to make 300 kgs of block ice, too. It can produce ice using either freshwater or saltwater. With a rapidly deployable design, it can be stowed away at night or packed up during bad weather within minutes.







Operating temperature	+2 ~ +4°C
Fuel savings p.a.	\$120,000
CO ₂ savings p.a.	160,000 kgs

Our single zone cool room is 100% solar-powered and can operate 24/7 in any environment. The temperature can be pulled down to +4°C in minutes, making it an ideal solution for rapidly cooling harvest or horticulture products. It only takes 15 minutes and very minimal labour to unload and operate, and is easily transportable by road, rail or sea.







Ambient operating temperature	5°C ~ 40°C
Internal temperature	-18°C
Fuel savings p.a.	\$160,000
CO₂ savings p.a.	214,000 kgs

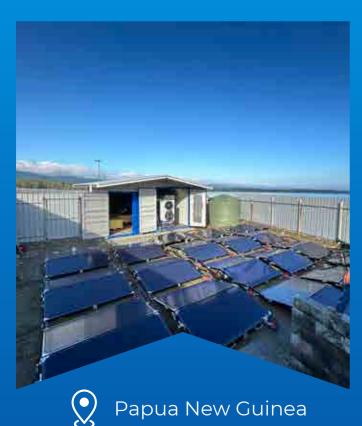
Within 30 minutes, the temperature inside our Solarator® Freeze can be pulled to as low as -18°C. As with any Solarator® product, the unit is designed to be mobile, modular, rapidly deployable, and easily transportable by road, rail or sea. It is also hybrid and micro-grid friendly and comes with customisable energy storage.





SOLARATOR® DEPLOYMENTS











Our range of battery boxes are fully integrated battery energy storage systems designed for convenient transportation, hassle-free maintenance, and simple operation. A battery box can be connected to an external PV power station, AC generator and grid power. Power and capacity of each Black Stump battery box can be expanded to suit different user needs and scenarios. Our battery energy storage systems are ideal solutions if your business wants to continue using its existing diesel generators.











Our Solarator® microgrid is the world's first rapidly deployable renewable energy solution that can generate megawatts of clean, renewable power. It is a fully integrated and highly scalable solution that uses three sources of energy: solar, battery, and (bio) diesel. It operates independently from the main power grid making it a reliable choice in locations that experience frequent power outages, weather disturbances, or unreliable grid infrastructure. Our Solarator® microgrid eliminates time, cost and hassle involved in building fixed solar infrastructure because of its turnkey mobile, modular and rapidly deployable design.

Depending on the scale of installation, fuel and cost savings vary but a payback period of 2.5 years has been observed at Black Stump Technologies' current installations.











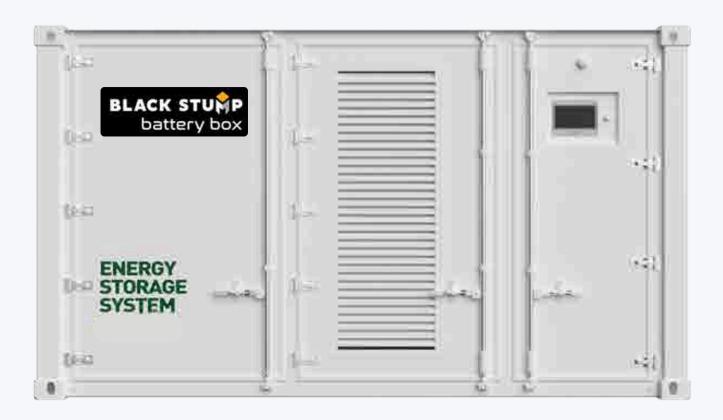


for easy movement worldwide. Once delivered to the site, the doors are lowered with the assistance of gas struts and the doors become the ramps for the Aussie Racks to exit. Each 20ft MSFA unit contains 8 Aussie Racks of 5kWp each. The entire 40kWp array can be rapidly deployed and stowed by 2 people within 15 minutes.

The MSF Array units are then attached to supplied BEMS/REMS unit(s) or a grid connection via temporary construction cabling and provide the renewable energy component of the system. Multiple 20ft, 40kWp MSFAs may be connected to a single inverter.







100kWh - 2000kWh

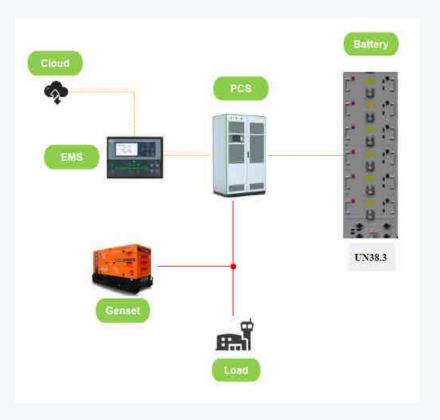
Battery Storage Capacity

50kW - 1000kW

Rated Output Power @ 25°C

400V@50Hz, 3ph

Rated Output Voltage











HIGH QUALITY
MANUFACTURING
TECHNOLOGY



MOBILE & MODULAR



SIMPLE OPERATION



BUILT-IN OUTLETS FOR OPERATION



LONG LIFE DESIGN UP TO 6000 CYCLES



INTELLIGENT PCS
WITH EMS







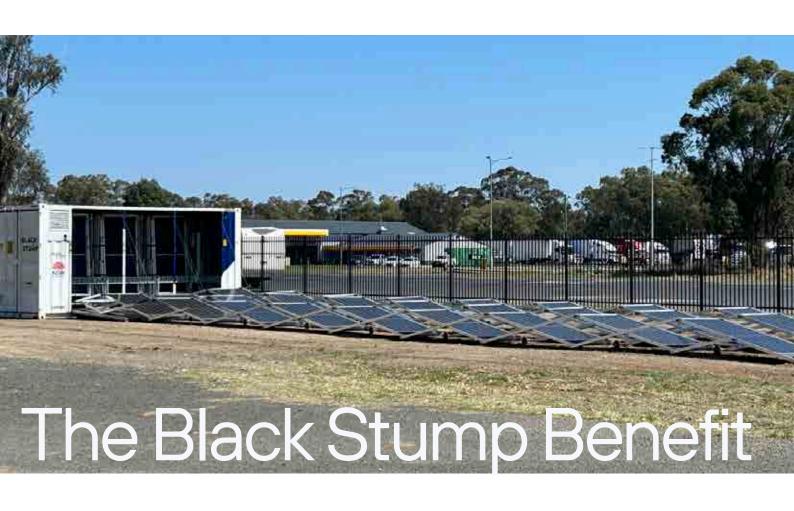


Black Stump Technologies is a sustainability technology company operating globally.

Our core technology was developed to withstand the harshest Australian remote areas which means it will work anytime, anywhere in the world. Our Solarators® can be found in Australia, USA, the Pacific Islands, and Europe, with plans to expand in Middle East and Asia. Our impact is environmental, economic, and social. Our products are proven in assisting organisations to achieve their sustainability goals and operational objective of net zero. Our customers include global infrastructure companies, the highest levels of government, defence departments, international aid & development operations, and remote communities.









SIGNIFICANT COST SAVINGS



EMISSIONS REDUCTION



ESG REPORT IN MINUTES



RELIABILITY IN ALL CONDITIONS



EASE OF USE & INSTALLATION

BLACK STUN

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