

HYBRID SOLAR POWER



JAMPUR GROUP



Save thousands of litres of Diesel

Jampur designs and installs hybrid solar installations in any size across Africa.

Connected to the grid or completely self sufficient off grid, our solutions save between 30% and 90% of fuel per year!

A combination of high capacity solar panels, a modern battery storage system and a Diesel Generator are the components of a reliable and economical power supply system.

Without compromising availability, a correct designed and installed hybrid power system saves massive amounts of fuel.

The World is changing for the better. And Jampur is your partner to make this a reality today!



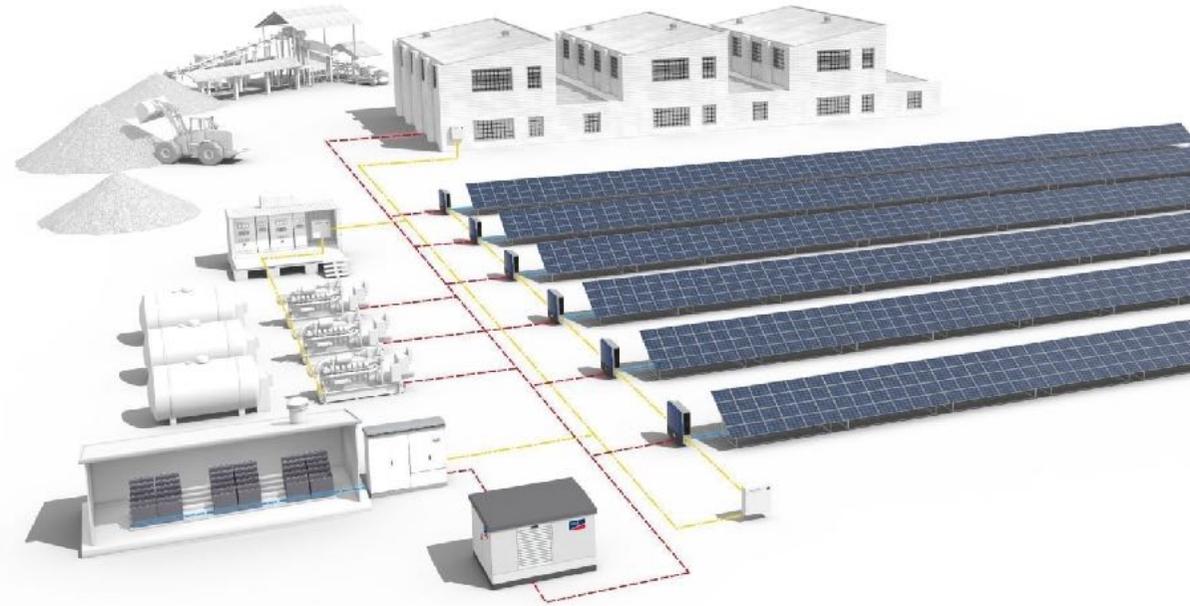
What is a hybrid system?

A hybrid power system combines solar panels with a Diesel Generator and a battery storage.

When the sun is up, the power is supplied by the solar panels and the battery is charged.

When the sun is down, the battery supplies the power augmented by the Diesel Generator.

Depending on the design, the use of the Diesel generator can be reduced by 30-80%.



Designing a hybrid solution

Depending on the location, required power and existing generator or grid connection, Jampur designs the optimal configuration using advanced computer simulations.

Before starting construction we know what savings can be accomplished.

Should demand grow over time, the system can be expanded accordingly.

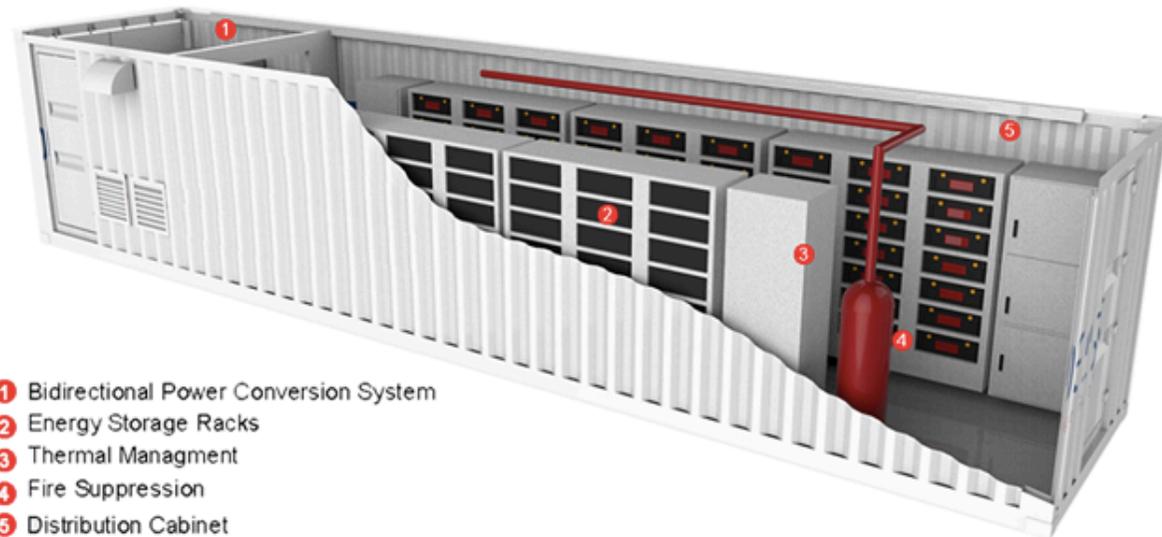


Highest quality components

Our systems are designed for a long service life. That is why we use only the best components with long warranty.

Our Solar panels have an industry leading efficiency and 25 year service life.

The storage batteries can cycle more than 4,000 times (10-12 years) and the construction is virtually indestructible.



- 1 Bidirectional Power Conversion System
- 2 Energy Storage Racks
- 3 Thermal Management
- 4 Fire Suppression
- 5 Distribution Cabinet

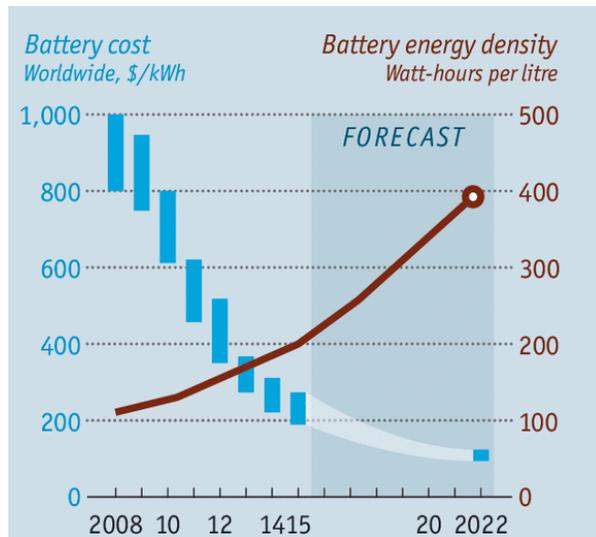
It was never more affordable

While efficiency of solar panels and capacity of battery storage have increased, prices have significantly fallen over recent years.

This makes more and more applications economical viable.

Combined with the expected rise of fuel prices and need to reduce Carbon emissions, this is the perfect time to switch to hybrid power.

COST OF SOLAR PANELS OVER TIME



Single Generators

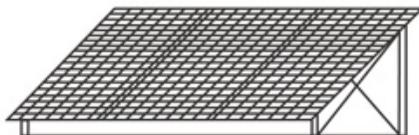
We add battery storage, solar panels and a hybrid controller to any stand alone generator of any size. The system components are packaged in a robust container.

Instead of the generator starting when the grid goes down, automatically the batteries take over within 15 ms. Only during prolonged black outs, the generator is started .

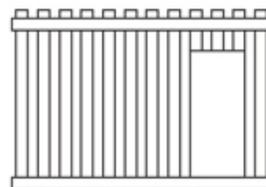
Large projects

Large projects are completely designed in house and installed in a very short time.

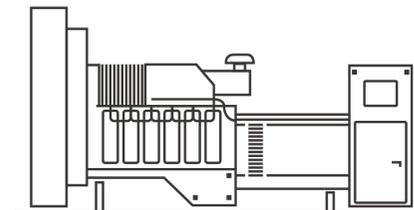
We execute projects of multiple megawatts of power, reducing diesel consumption by hundreds of thousands of liters.



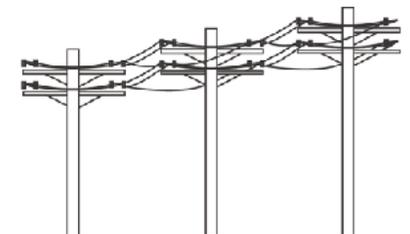
Solar arrays of any size



LiFePO4 Battery storage



Combined with any Generator



Connected to the grid if available



Fuel saving

Actual fuel savings that can be achieved range between 30-60% depending on consumption profile and capacities of solar panels and storage.

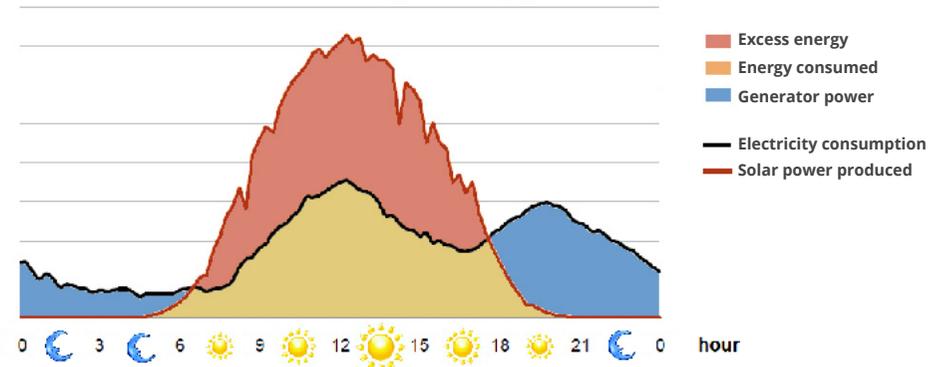
The hybrid controller automatically selects the most optimal source of energy.

Low maintenance

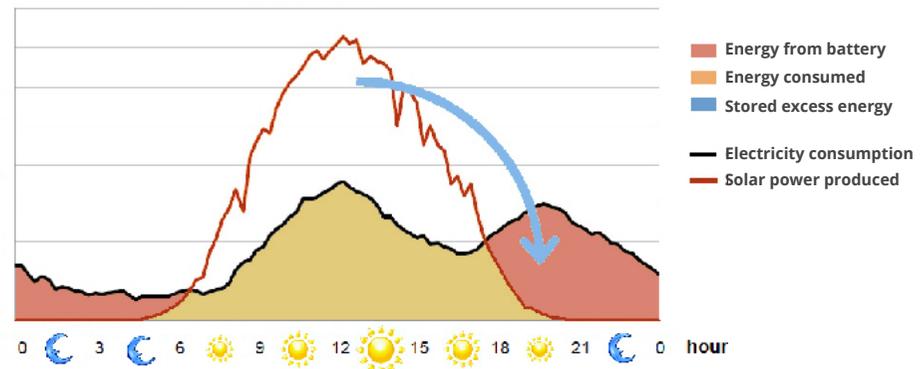
Maintenance of the hybrid system is minimal, limited to cleaning the panels and checking electrical components.

In fact, because the generator runs less, maintenance cost of the generator is significantly reduced.

Without battery storage



With battery storage



Financing available

With flexible financing solutions, there is no reason not to start saving on fuel today.

We offer various solutions that spread the cost of an hybrid installation over a longer period thus reducing the need for high upfront investment.

We are ready for your projects. Tell us your requirements and we prepare a comprehensive proposal that will surprise you.



From our network of offices we cover every country in Africa and the rest of the world

We look forward to working with you so please contact us with any requirement you may have.

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