



ENERGY STORAGE

USE IT OR LOSE IT!



Traditional Solar systems don't store electricity.

Excess electricity generated by the solar panels is fed back into the electricity grid.

Nowadays, a small '*token*' amount may be paid to you by your Electricity Retailer for this excess electricity but it is negligible, merely a fraction of what they charge you for the same electricity you get charged for later in the evening when your solar panels are not producing power



And your electricity retailer keeps charging you more and more each year for the same electricity

FUTURE AHEAD

BRAEMAC
ENERGY


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GENERATE FREE electricity
from **YOUR** solar system

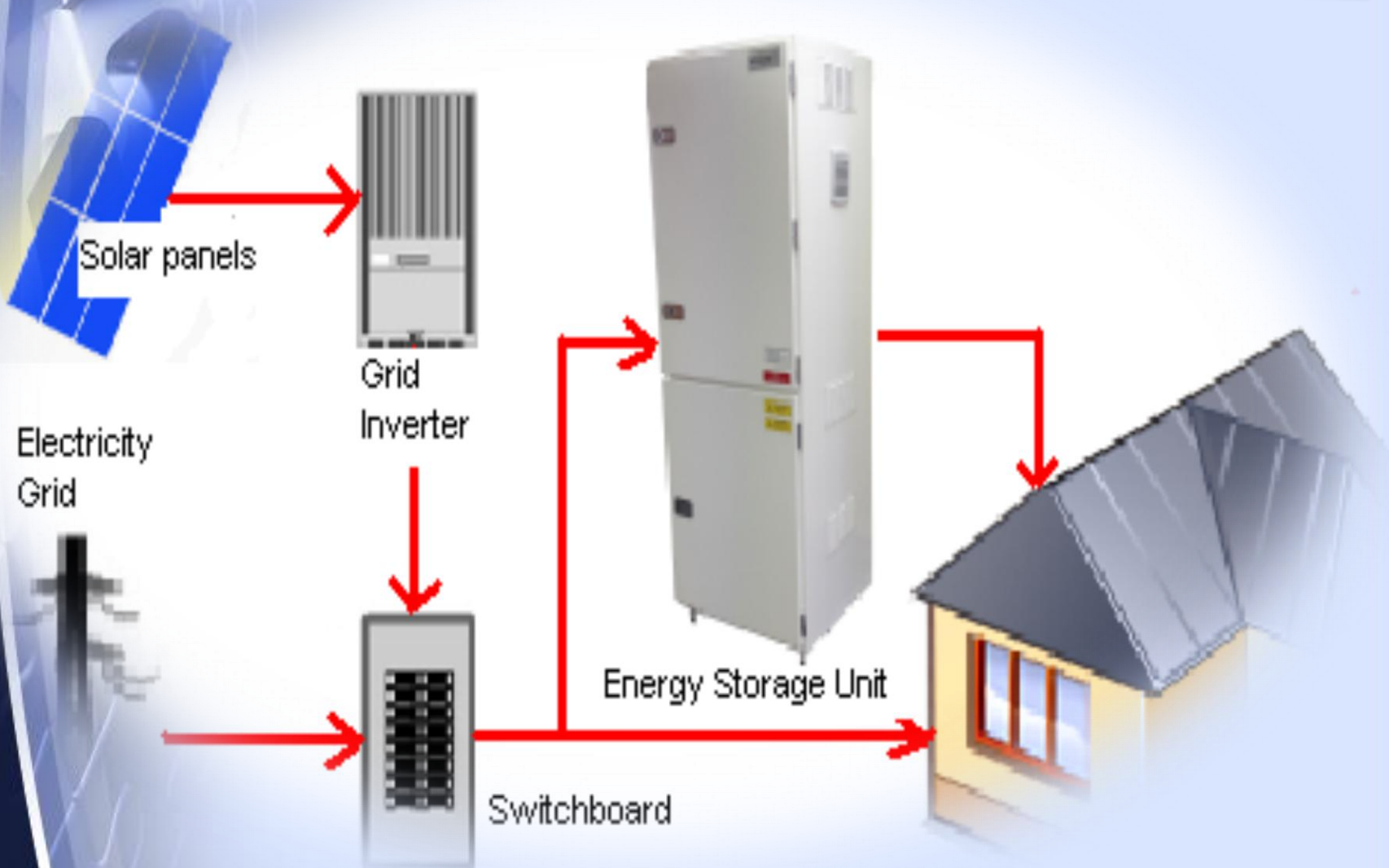
STORE excess **FREE** electricity
generated by your **SOLAR**
SYSTEM during the day

USE your **FREE** stored
electricity at night

The background features a blue sky with white clouds. Three logos are floating in the upper left: 'BRAEMAC ENERGY' on a white rectangular sign, and two 'solapowa' logos on white rectangular signs, one of which also includes a circular logo. A green rectangular sign with white text is positioned in the center-left. On the right side of the image is a tall, white, three-door energy storage cabinet with ventilation grilles and warning labels.

WELCOME TO THE FUTURE

**State of the Art fully wired &
preconfigured Energy
Management System to put
YOU in Control**



Solapowa

Solapowa

Powered by

Schneider
Electric

BRAEMAC
ENERGY

Simply The Best



Battery Types & Technology

There are a number of different types of battery technology used in Energy Storage Systems

BATTERY TYPE	ESTABLISHED : NEW TECHNOLOGY	SAFETY	EXPERIENCE : LEARNING CURVE	PRICE
Flooded cells	OLD Technology, require water top up cells. High maintenance	Risk of acid spills or leakage	MATURE & established field performance	LOW
Lithium cells	NEW technology, Investment in R&D for product Development to reduce cost & improve safety	Risk of overheating and risk of “ <i>thermal runaway</i> ”, fire or explosion	NEW , significant development and testing required for deep cycle applications	HIGH
AGM cells	ESTABLISHED technology, short lifespan using Absorbed Glass Material	Low risk, sealed batteries using safety valve design	MATURE technology limited by lifespan in deep cycle applications	LOW/ MEDIUM
GEL VRLA Tubular cells	INNOVATIVE technology, long lifespan using established GEL technology with tubular lead plates. Low maintenance	Low risk, sealed batteries using safety valve design	PROVEN performance in energy storage & deep cycle applications	MEDIUM



Fully Automated with a modern design fully enclosed corrosion resistant powder coated vented storage cabinet

The lockable cabinet is wired directly to your main switchboard

The top compartment comprises a fully integrated and pre-programmed state of the art Schneider Electric inverter charger.

Direct current (DC) electricity is delivered from the battery compartment (bottom section) through a 250 Amp fuse box into the inverter charger which converts the electricity into Alternating Current (AC) 240 Volts for use in your home

The stored electricity is available any time the electricity grid fails. In the event of a power failure, the battery storage unit senses the power loss and immediately switches over to battery discharge mode through the powerful hybrid inverter





Charging sequence

Excess Electricity from the Solar panels is channelled through the AC Distribution board inside the storage cabinet into the Schneider Electric inverter-charger through AC 1 input (grid)) on the inverter

The inverter charger converts the AC 240V to DC voltage

The DC power travels through a 250A fuse board into the sealed ZERO MAINTENANCE VRLA battery bank located in the lower section of the cabinet where the energy is stored



Discharging sequence

When the pre-programmed energy discharge sequence is automatically activated, electricity flows from the battery bank through the 250A fuse board into the inverter charger which converts the DC voltage to AC voltage (240V)

The 240V AC electricity travels through the AC Distribution board inside the cabinet and into the switchboard and into the home to provide electricity for appliances and other loads within the home – as required



STOP sending
excess electricity
from your solar
panels back to
the grid for next
to NOTHING !!

USE your FREE
electricity at
night when the
solar panels are
not producing
power

In a '*blackout*' be
the envy of your
neighbours and
use your stored
electricity to power
your home

REAL BENEFITS

