

HYBRID SOLAR PROJECT



HYBRID SOLAR PHOTOVOLTAIC INSTALLATION



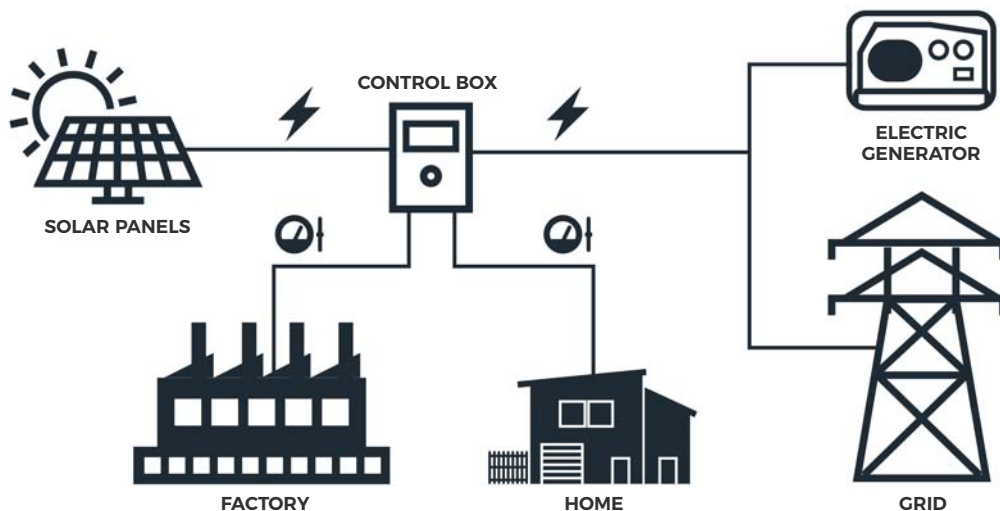
WHAT IS A HYBRID SOLAR SYSTEM?

Hybrid solar PV systems combine solar photovoltaic energy with another energy source, like a diesel generator or the grid, to provide power to an installation.

The system uses all the solar power available and will complement the demand of the installation with the grid or the generator. Thus, during the daylight most of the energy will come from the sun.

Hybrid systems can be isolated, when the alternative source is a generator set, or grid-tied, when the alternative source is the grid.

Hybrid solar systems allow the owner to increase their energy independence by reducing the percentage of energy from non-controllable cost (e.g. electric bill and diesel cost).



HYBRID SOLAR SYSTEM ADVANTAGES

- Uses all the solar power available
- Reduces energy consumption from the alternative source
- Two independent power sources
- Reduces maintenance of diesel generators
- Several configurations depending on client requirements and grid requirements
- Different possibilities of energy generation for self-consumption, balance, or direct injection to grid.
- Quick and professional installation and commissioning
- Flexibility of type of installation, rooftop, surface or floating.
- Reduces diesel usage
- Reduces CO2 emissions

ISOLATED HYBRID / GRID CONNECTED HYBRID

INSTALLED POWER	500kWp
NECESSARY SURFACE	5421 m ²
ANNUAL ESTIMATED PROD.*	648160-972240 kWh
ESTIMATED DIESEL CONSUMPTION REDUCTION	188419-282628 L***
ESTIMATED CO ₂ SAVINGS**	380-573 Tn

*Production will depend on the latitude of the area/ ** The saving of CO2 depends on the energy mix of the country /
 *** The equivalent diesel consumption depends on the generator

APPLICATIONS



1. INDUSTRIAL

2. WATER TREATMENT SITES

3. ANIMAL FARMS (CHICKEN, PIG, RABBIT...)

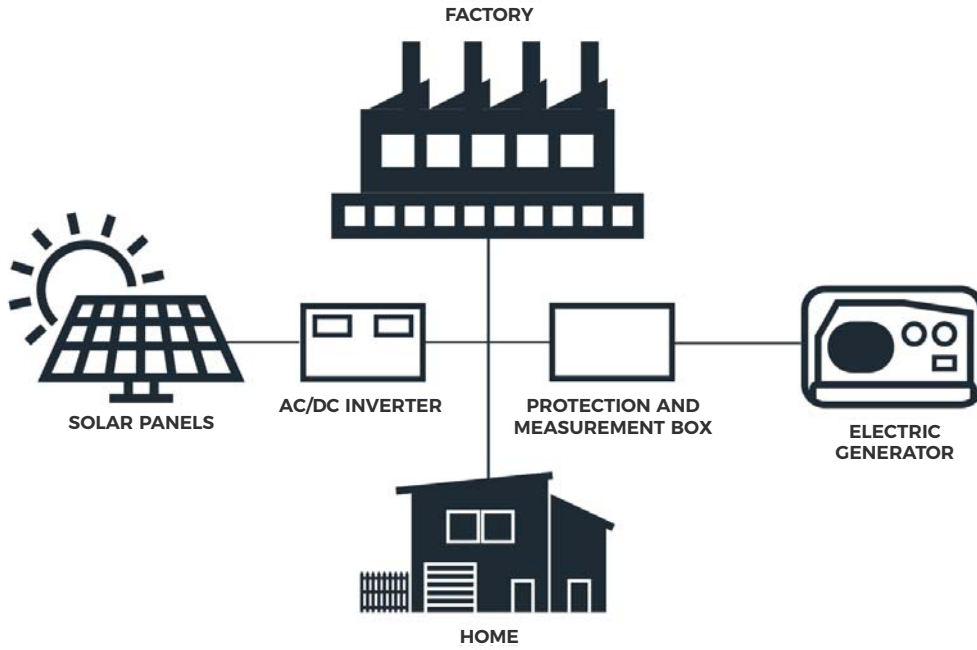
4. AQUACULTURE FARMS

5. MINES

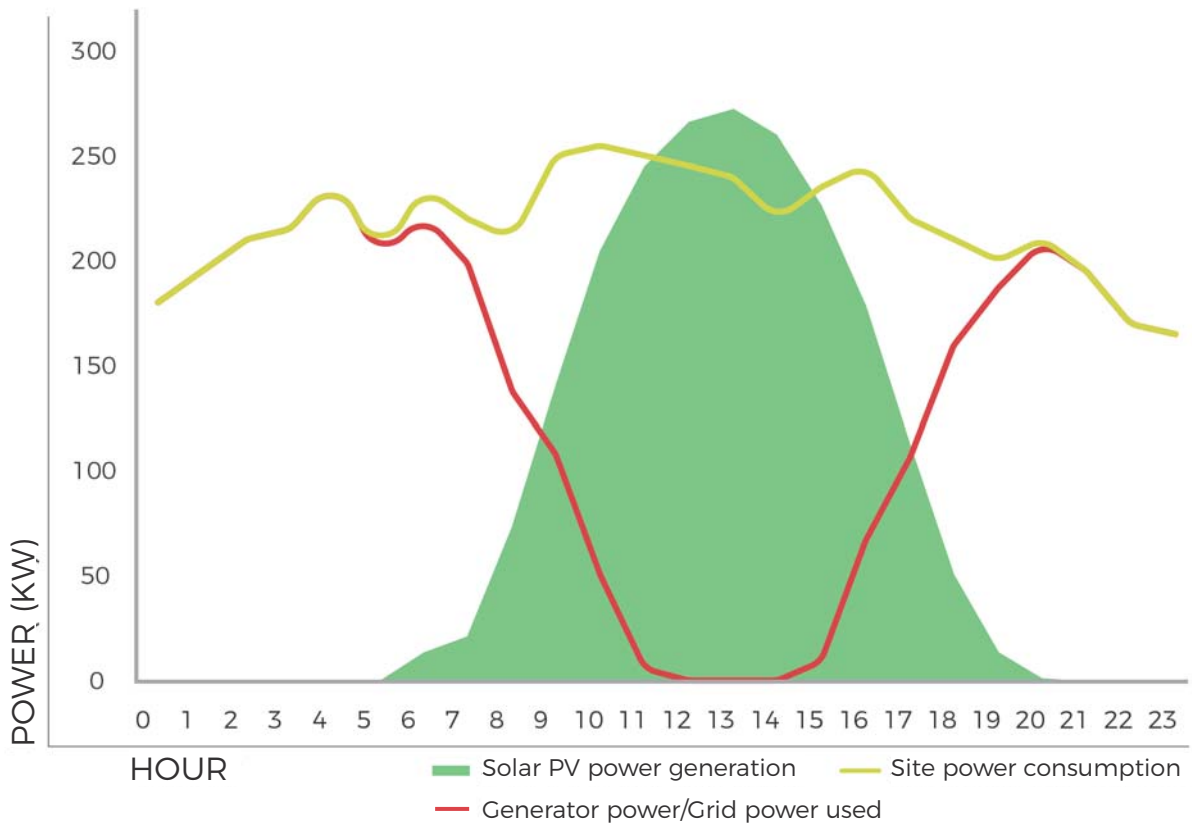
6. WATER PUMP STATIONS

7. RESIDENTIAL COMMUNITIES

HYBRID SOLAR SYSTEMS



> ENERGY INPUT IN ELECTRIC HYBRIDIZATION SYSTEM





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