

long
Experience



شركة الفوزان للإستثمار و التطوير
AL-FAWZAN INVESTMENT AND DEVELOPMENT COMPANY

Solar Energy Department





Solar energy system forms are in sequence:

- 1 - Connecting to the general network -system (On Grid)
- 2 - Detached from the network- system (Off Grid)
- 3 - Connecting to the network- system beside existing storage batteries (Hybrid System)
- 4 - solar irrigation system.



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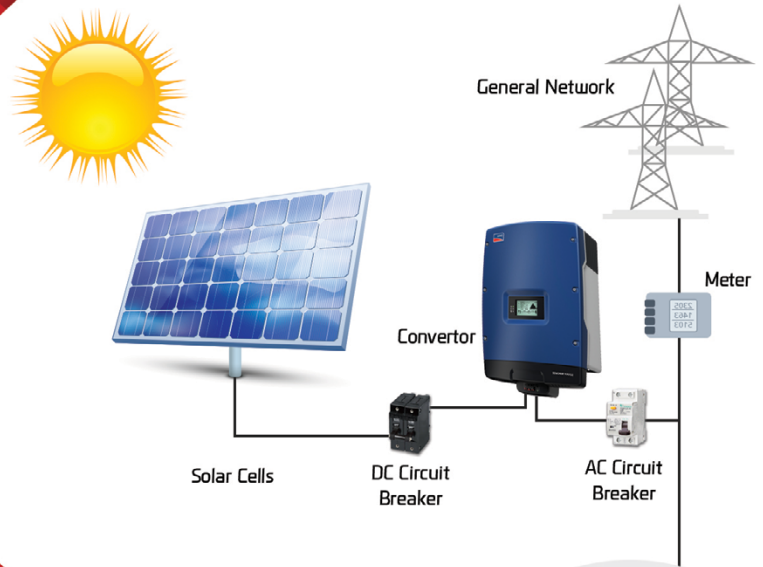
SUNPOWER



On-Grid System

On Grid System

this system serves all of homes, factories and shopping centers which are connected to the general electricity network.





Different Types of
Electrical Loads



Off-Grid System

This system serves out of electricity connection places. It basically depends on the solar system all the day.

Off-Grid System

Hybrid System

Hybrid System

this system serves all of connecting to electricity locations. During the day, it is directly powered by the solar panels then the batteries are turned on during the night.





Irrigation System by Solar Energy

This system serves the agricultural projects as it turns on the irrigation systems of water pumps during the day.

Irrigation System by Solar Energy

1

Photoelectric panels turn solar energy into constant electric current

2

The converter provides the control/ distribution board with electricity in parallel with the electricity network

3

When the electricity production exceeds the consumption, the electricity is exported to the network and an extra credit is recorded for the consumer.

4

In the case of low electricity production, the disparity is compensated by the network

**How do photoelectric
systems work in
the on grid mode?**



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