SOLARENA
ENGINEERING

On-Grid Solar PV Stations



SAVE YOUR ENERGY

ON-GRID
SOLAR PV SYSTEMS

Overview

An on-grid solar photovoltaic system generates electricity from sunlight and operates in connection with the public electricity grid. The system is composed of solar panels, an on-grid inverter, mounting structures, protection devices, cables, and monitoring equipment.

During daylight hours, the generated solar energy supplies the facility's electrical loads, reducing the amount of electricity purchased from the grid. Depending on the applicable regulations and system configuration, surplus solar energy may be exported to the electricity network.

On-grid solar PV systems provide clean, renewable energy and help facility owners reduce their dependence on conventional electricity sources..

Features:

- Reduced Electricity Costs.
- Efficient Energy Utilization.
- No Battery Storage Required.
- Automatic Operation.
- Performance Monitoring.
- Quiet and Clean Operation.
- Long Operating Life.





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Applications

- Villas and Residential Buildings.
- Schools and Universities.
- Hotels and Resorts.
- Residential Compounds.
- Sporting Clubs.
- Hospitals and Clinics.
- Factories and Industrial Buildings.
- Food and Beverages Retail areas.
- Stadiums and Sports Venues
- Malls and Retail Outlets.



Specifications:

An on-grid solar PV system design will depend on several factors:

- Facility Type.
- Daily and Monthly Electricity Consumption.
- Daytime Electrical Load Profile.
- Monthly Electricity Cost.
- Available Installation Space.
- Roof Orientation and Shading Conditions.
- Geographical Location of the Facility.
- Existing Electrical Infrastructure.
- Applicable Grid-Connection Regulations.
- Desired Energy Savings and Financial Objectives..



Solarena Engineering offers customized on-grid solar PV solutions based on the facility's energy consumption, available installation area, electrical infrastructure, and the desired financial and energy-saving outcomes of the facility owner

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Contact Us

Solarena Engineering LLC

16th Al Khartoum St., Korba
Postal Code 11757
Heliopolis, Cairo – Egypt

Tel: +2 010 330 360 34

E-mail: info@solarena-engineering.com
www.solarena-engineering.com