



الشركة العربية للطاقة المتجددة
Arab Renewable Energy Company



ARECO Products



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1 PV SOLAR PLANTS



Fuel Saving, Hybrid System:

- Solar Power is directly injected into the Diesel generator mini Grid.
- Reduction of fuel consumption due to solar energy penetration.
- The solar fuel saver controller manages the solar power output according to the operation of the diesel generator.
- No batteries are needed in Fuel Saving System but In hybrid System, Batteries storage are added.



ON grid PV Solar Plants:

- The plants are connected to the national grid and the produced energy is sold out at the Egyptian distribution Company according to FIT, plants of this type are economical and achieve the highest return on investment. and can be erected on ground or roof top.
- Small PV solar units for lighting (Homes, Villas, Touristic resorts ,.....

Off grid PV Solar Plants:

These plants depend on electrical energy storage and load profile. Batteries and Chargers are added to the components of the ON grid solar plants, these plants include.

- PV emergency units
- PV mobile Units

2 PV SOLAR LED STREET POLES



- **Lighting Time:** from sunset to sunrise (average 12 hours per day)
- **Advanced charging, discharging and lighting control system** with reliable performance
- ARECO has installed and operated LED street poles in several locations:** Sharm El Sheikh /Aswan Governorate/ Cairo Governorate/Electricity distribution companies.

3 Manufacturing & installation & testing of wind turbines



Turbine Specifications :

- **Power:** 1.5 MW
- Annual yield 4.5 GWh
- **Hub height:** 65 meters
- **Rotor Diameter :** 70 meters
- **Type :** Gearless (Permanent magnet technology)
- **Cut in speed :** 3 m / s
- **Rated Speed:** 14 m / s
- **Cut out Speed:** 25 m/s



4 Solar Water pumping systems from wells and surface water

Design requirements:

- Depth of the well.
- Daily water quantity and flow rate (m3 /day).
- Dynamic water level inside the well .
- The well casing diameter.

Based on the mentioned requirements, pumps inverter and capacity of the station can be decided.



5 Solar Desalination System

- Chemical composition for water (sea / Wells) needed to determine salinity of water to design the system.
- Daily quantity and rate.



6 Solar Pumping Systems For Green houses



7 ARECO PV solar Modules Production line

- Production of PV Modules up to 450 W
- Annual Capacity 52 MW
- Production rate (24 Module /Hour)

