

Solar Pumping Solutions

Based on current power positions in remote villages, and farm fields, where agriculture is the backbone source of income to farmers, GreenSol provides certified government approved solar pumps to farmers to avail them subsidy provided by various state/central agencies.

Salient Features

- Durable and rugged construction
- Environmental friendly operation
- Can be used for surface and submersible pumping application
- Mechanical structure with hot dip galvanisation and powder coating for long life
- DC brushless motors, designed for solar with over 90 % efficiency
- Very strong ROI against diesel powered pumping
- Fast and simple installation
- DC Submersible pump - total lift up to 300ft (92mts)
- DC Surface pump - total lift up to 70ft (21mts)

Application

- Village/Drinking water supply
- Residential/Industrial well pumping
- Irrigation pumps

Benefits

- Reduces energy overhead through low energy cost
- Promotes a sustainable, green environment
- Reduces carbon footprint via emissionless power production
- Independent system



Names goes here



Names goes here

Approved/Certified Solar Pump Models

Type	CAPACITY WITH CONTROLLER	MNRE-MODEL	SOLAR ARRAY	SHUT OFF DYNAMIC HEAD	WATER OUTPUT**
AC Submersible	3HP	MODEL-III/IV	3000 Wp	45/75 MTS	96-57.6 K LTRS PER DAY -HEAD - 45-75 MTS
	5HP	MODEL-VI	4800 Wp	70 MTS	91.2 KLTRS PER DAY -HEAD - 50MTS
DC Submersible	3HP	MODEL-III	3000 Wp	45 MTS	105 KLTRS PER DAY -HEAD - 30MTS
	5HP	MODEL-VI	4800 Wp	70 MTS	100.8 KLTRS PER DAY -HEAD - 50MTS
DC Surface	3HP	MODEL-III	2700 Wp	25 MTS	135 KLTRS PER DAY -HEAD - 20MTS
Drinking Water-Dual-Submersible	1HP -WITH HAND PUMP	MODEL-V	900 Wp	45 MTS	20 KLTRS PER DAY -HEAD - 30MTS

** Water output figures are on a clear sunny day with three times tracking of SPV panel, under the "Average Daily Solar Radiation" condition of 7.15 KWh/ sq.m. on the surface of PV array (i.e. coplanar with the PV Modules).

Commercial Models

Greensol can provide solution for existing/new borehole-surface pumps with solar as an alternate option for electricity driven pumps.

TYPE-AC -1 ϕ /3 ϕ	Controller	Solar With Manual Tracking	Pump * Reputed Brands
1-5 HP	1-5 KW VFD	1-5kWp	SURFACE/SUBMERSIBLE
5-10 HP	5-10KW VFD	5-10kWp	SURFACE/SUBMERSIBLE
10-30 HP	10-30KW VFD	10-30kWp	SURFACE/SUBMERSIBLE

General Technical Specifications of Major components

Solar modules	: Crystalline solar modules - IEC CERTIFIED/MNRE APPROVED : 250Wp and above with >15% efficiency >0.7 FF
Tracking structures	: Manual with hot dipped galvanised MS structures with holding clamps rated for 80-150Kms/Hr.
Controllers /Drives	: Solar control -MPPT -97% efficient VFD drives /ABB/Schneider/Toshiba/Shakthi/reputed