Global Legacy of 150+ YEARS

KSB
Solutions. For Life.

KSBSol
Solar Pumping Solution

MORE STARS MORE SAVING
ENERGY SAVINGS GUIDE

The complete, efficient, solar water pumping solution

The most compact and reliable solution for solar pumping applications

Working of Solar Pumping System

A Solar Pumping system is basically a pumping system driven by solar power.

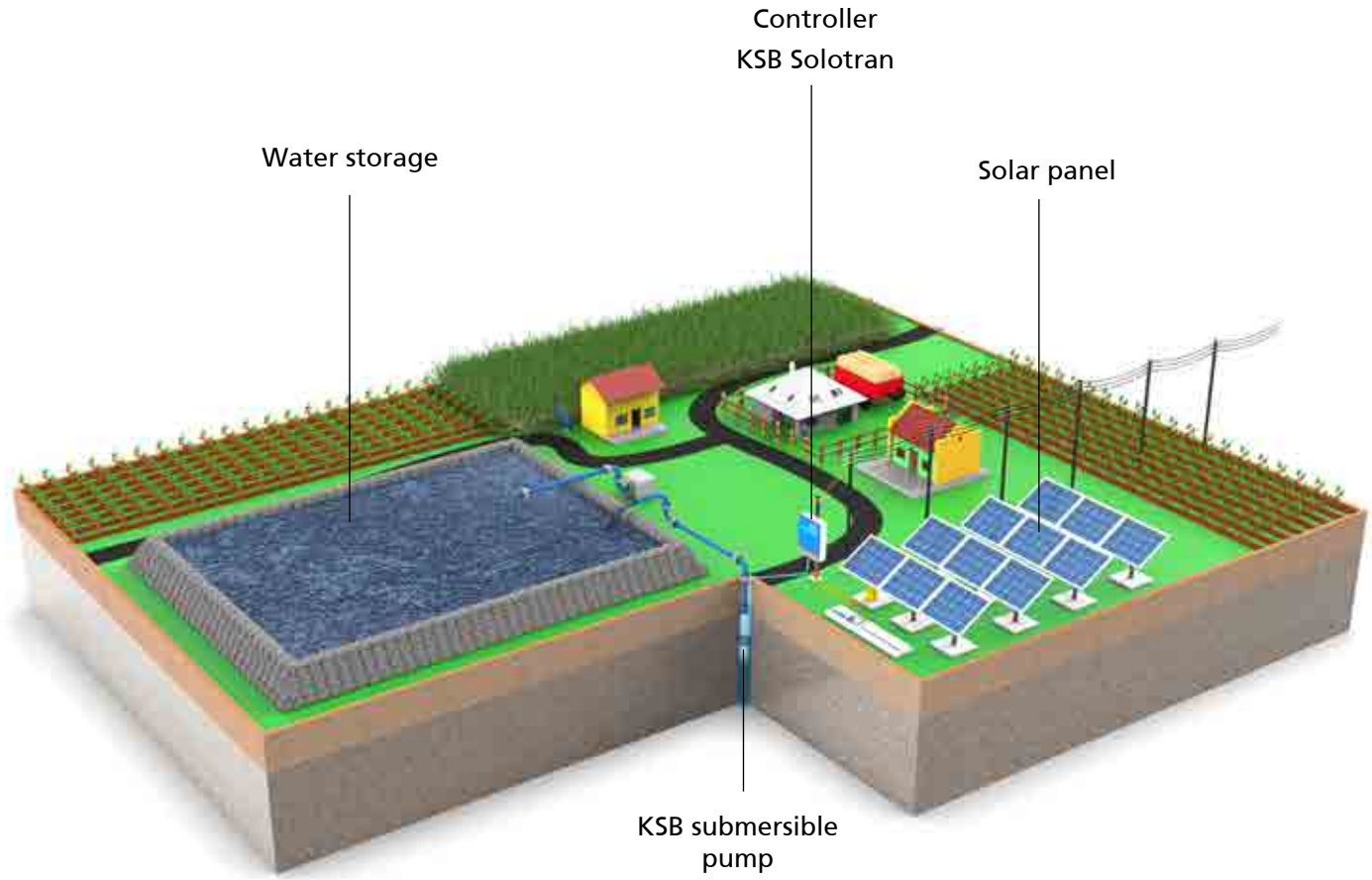
It has mainly three key components, **Solar PV panels** that convert solar energy into DC power, **Solar Pump Controller** converts power as per the motor requirements to drive the **solar pump set.** These pumps are specially designed in such a way that it gives optimum output even in the limited available solar power.

These pumps further can lift the water from a well, river, lake, artificial lake or tubewell and circulate in the farms or any other applications.

Benefits
you will get

Whether your need is to reduce operational costs, improve water security, or be more sustainable, KSB provides the right solution.

- Approved by **MNRE** models available
- Wide range of pumps to match evety need of customer. Complete **SS pumps** option is also available for 4" & 6" upto 26 HP
- More discharge than any other equivalent pump
- Reduction in CO_2 emission
- Proven performance & durability
- Lower maintenance Cost
- No dependency on expensive fuel or electricity
- Strong Service & spare support available accross India



Solar Pump :

A solar pumps comprises a KSB pumps & high efficiency motor that drives the pump. Wide range of submersible pumps & surface pumps are available with KSB to cater various need whether it is in agriculture or drinking water.

Solar Panel :

Solar PV-Modules collects the photon rays and convert them into useable electricity the solar cells are silicon or semiconductor materials which produce Direct Current Electricity (DC)

Power generated from the PV-Module will be based on the sun intensity

Controller :

Electronic system - controller is the heart of a solar pumping system which converts DC Power from PV modules to suitable power as per the motor requirement. It manages the seamless operations of the motor with reference to the sun intensity

KSB Solotran analyses inputs and constantly optimizes the system for maximum water outputs

Applications





Domestic application & General water supplies:

KSBSol is able to provide economical solution for pressure boosting systems & other water requirements.

Agriculture Irrigation :

Existing irrigation system can be converted to cost effective solar power without any replacement with proper consultation at KSB. KSBSol provides facility of productive farming in lands even without any power infrastructure.

Drinking water :

KSBSol makes it possible to supply water for a village, an individual residence or a resort. Water is made available at the most remote location with KSBSol.

One stop Solar pumping Solution

An effective solar water pumping system is made up of more than one component. When you choose KSB system you will get an integrated solution design specifically for solar water pumping

Submersible borehole Pumps

Wide range of Submersible boreholes pumps - 4", 5",6", 7", 8" that means your hydraulic needs can be closely matched for maximum efficiency.

4" & 6" (CORAChrom) are available in complete Stainless Steel (including CORAChrom motor) upto 30 HP

Control Panel

KSB Controller **Solotran** have been developed in accordance with state-ofthe-art of design & manufactured with extreme care and rigid quality control. These are used to drive KSB solar pumps with a high efficiency MPPT algorithm & wide operating DC voltage range, which makes the PV module connection extremely easy.

Surface Pumps

Agri Monosol - Single stage, monobloc, pump in compact and light weight design. Suitable for solar application
Available in 2 to 20 HP

Accessories

To complete your system KSB provide a wide range of compatible probes, sensors, solar power connection equipment, racking and PV modules. This enables a single source of tested, ready to integrate components to give you a complete solution.

Technical Details

Pump Type			
	Submersible (AC)	**SS - Submersible (AC)**	**SS - Submersible (DC)**
Pump Día (Inch)	4 - 8 Inch	4 - 6 Inch	4 - 6 Inch
Motor Rating (HP)	1 - 75 HP	0.5 - 15 HP	0.5 - 10 HP
Head Range (Mt's)	up to 400 m	up to 400 m	up to 250 m
Flow (m^3/hr)	up to 200 m^3/hr.	up to 80 m^3/hr.	up to 35 m^3/hr.

Pump Type			
	Surface Pump (DC)	**Surface Pump (AC)**	**Openwell Pump (AC)**
Motor Rating (HP)	1 - 10 HP	1 - 20 HP	3 - 10 HP
Head Range (Mt's)	up to 20 m	up to 50 m	up to 50 mtr
Flow (m^3/hr)	up to 38 m^3/hr.	up to 73 m^3/hr.	up to 110 m^3/hr.

Model	Motor Type	Motor rating (HP)	Application
KDCSOL 100 (Water filled)	DC	3 - 5 HP	For minimum 4 inch borewell
KDCSOL 100E (Oil filled)	DC	1 - 7.5 HP	For minimum 4 inch borewell
KDCSOL 150 (Water filled)	DC	7.5 - 15 HP	For minimum 6 inch borewell
UMAISOL 100CH (Water Filled)	AC	1 - 5 HP	For minimum 4 inch borewell
UMAISOL150CH (Water Filled)	AC	7.5 - 15 HP	For minimum 6 inch borewell

Pump Type	MOC	Pump Flow
CORACHROM as per MNRE guidelines	Stainless steel	Mixed / Radial
# We have range of all type of pumps available in mixed and radial flow for solar applciation		

SOLOTRAN Controller

Salient Features

- Maximum Power Point Tracker (MPPT) for optimally use of Solar Energy from Photovoltaic panel and as a result maximize the water discharge
- Wide Input MPPT voltage range for early start & late stop of solar Pump
- IP 65/IP 54 Controller Cabinet of sheet metal with powder coating.
- Protections inbuilt Dry Run, Open circuit, Accidental short circuit, reverse polarity, Input surge
- Provision for DC/AC input operation with suitable breakers & Surge protection device
- Provision for Float Switch operation for Tank Level detection
- Provision for Remote Monitoring System (RMS)

E-Warranty QR Code

KSB Solutions. For Life.

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