

Renewable Energy Enterprises, LLC



Mobile Solar Pumps Used in Irrigation Water Supply Live Stock

Water is critical to the economic development of any country. In Afghanistan energy is the main cause of restricted access to water. Afghan rivers flow through valleys and open land, but their banks are left mostly barren and unused. Villagers are not able to afford diesel powered generators because of high cost of diesel fuel. Electricity is not available due to lack of infrastructure. Hence, solar powered irrigation and water supply systems are the key to sustainable supply of water at no operating costs with least maintenance and high dependability. Mobile solar water pumps can be shared by community members and tribes and can be utilized to irrigate and supply water to large areas in a most efficient manner. Just doubling the irrigated land on both banks of a river/stream can double the income of the population.

REE's mobile water pump which can be used for irrigation, water supply and livestock support can solve the problem of water in rural Afghanistan and significantly impact economic growth in the country.



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Mobile & Stationary Solar Water Pump for Irrigation & Water Supply

Design
Manufacturing
Sales
Support

REE:
A partner in sustainable community development



Technology at work for you

CONNECTING YOUR BENEFICIARIES TO THE TECHNOLOGY RESOURCES THEY NEED

The REE mobile solar pump operates with DC power so that there are only three components to it, the submersible pump, the pump controller and the solar panels. This ensures that there is a minimum need for maintenance and that the skills needed to operate the pump are also minimum. Thus any educated or uneducated farmer can run the system and ensure that basic regular maintenance activities such as cleaning the PV panels etc. are carried out.

Afghanistan has on average more than 300 days of sun shine. The best and most quantity of sun shine is when there is most need for water. So why not combine both to enhance economic growth and improve quality of life through solar pumping for irrigation, livestock support and water supply for human consumption? There is no need to be afraid of modern technology. Today solar power by credible and reputable manufacturers is reliable and sustainable.



MADE IN AFGHANISTAN

The REE mobile solar pump is designed and made in Afghanistan. It is a clear contribution in ensuring the start of technologically advanced and economically viable manufacturing of products and systems that create sustainable jobs and enable the country's economy to move away from foreign aid dependency.



ASSEMBLED IN LESS THAN ONE HOUR

REE's mobile solar pump can be assembled in less than an hour and disassembled in even less time. This allows the user to move it to any location in the morning and assemble it for use. After sunset it can be dis-assembled and towed back to be stored for the next location on the following day.



A COMMUNITY CAN SHARE A REE PUMP

A group of people or a whole village can buy/lease one pump and share it based on their water needs. This puts it in the same category as a Karez being shared by a community and managed by a MIR AAB (water manager).

Water is Life your life needs water

REE OFFERS

- PRE-PURCHASE CONSULTING
- POST PURCHASE TRAINING
- TWO YEAR SYSTEM WARRANTY
- SYSTEM REPAIR AND MAINTENANCE, IF NEEDED
- WARRANTY SERVICE FOR SYSTEM COMPONENTS SUCH AS CONTROLLERS, PANELS AND PUMPS
- CUSTOM SYSTEM DESIGN AS PER CLIENT NEEDS
- STATIONARY SOLAR PUMPING SYSTEMS.

WATER WITH THE PUSH OF A BUTTON

The pump can be inserted into a well or a river and with the push of a switch water starts to flow for as long as the sun shines. No need to fill up the tank, to pay for diesel, to change oil or to worry about major repair and maintenance costs. Water can be pumped from more than 70 meter depth and to more than 70 meters vertical height. Greater depths can also be served.

GET WATER TO WHERE IT IS NEEDED

There is no water shortage in Afghanistan. Afghanistan is just not able to get water to where it is needed. It loses more than two-thirds of its water to Iran, Pakistan, Turkmenistan and other neighbors because it does not harness its rivers. The solar irrigation pump can solve this problem to some extent. If we were to pump the water using REE's mobile solar pumps to elevations and then allow the earth's gravity to do the rest, we will see a major change.

TECHNOLOGY CAN BE USED FOR THE GOOD OF MANKIND.SOLAR POWER IS A BLESSING FROM GOD

THE REE MOBILE SOLAR PUMP CAN BE BOUGHT OR LEASED

REE is partnering with aid agencies, donor contractors, government agencies, financial institutions and individuals to bring the pump to those that badly need it.



Why is the area around this dam so barren?

REE can team up with these agencies to offer its mobile solar pumps for wholesale prices, for installment sales or for lease. Thus the beneficiary will be able to utilize them with least constraints and under most suitable conditions.

When it does not pump water, REE's mobile solar pump owner can use it to provide power for his house or small business. After all, he has access to more than 2 kilo watts of power. All he has to do it to charge a battery bank and he can have access to electricity at night too. Thus an additional contribution to enhanced quality of life can also be made.

