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RENEWABLE ENERGY:  
REGULAR WATER!

# THE RHYTHM OF RUNNING WATER

The gurgle of running water is music to the ears of those who live in some of India's driest parts ruled by hot temperatures, poor rainfall and water scarcity.

The aim of this program is to make drinking water supply reliable and regular to the people of these remote parts through deploying solar technology.



# SO MUCH SUN: SO LITTLE WATER!



The average temperatures in the driest parts of Gujarat (like the Kutch region) is between 40 and 45°C. Home to many traditional peoples engaged in subsistence agriculture, crafts and casual work, these regions are heavily affected by insufficient rainfalls and chronic water scarcity. Women have to walk minimum distances of 6-10 kilometres everyday to fetch water for essential household needs like drinking, cooking and watering cattle. As much as 16-20 hours are spent each week on this important but wearying household task. How can we remedy this?





# POWER TO THE PEOPLE!



The omnipresent sun in these parts can be turned into a blessing. Its plentiful light can be harnessed by efficient solar panels and used to power solar pumps, which can bring drinking water into the homes of many who (presently) have to walk far for this.

This water program is an ambitious one. It seeks to bring water directly into thousands of rural homes in the driest parts of the state of Gujarat through employing viable solar water pumping technologies.



# CONGRUENCE

Solar technology brings a host of veritable benefits to its users. The investments made in a solar technology bundle (panels, pumps & peripherals) are offset by many advantages in the long run. Savings in TIME (no need to walk long distances to fetch water anymore!) and MONEY (no power bills to pay ever!) are two of the most obvious of these. Other hidden benefits include sustainability and a cleaner environment.



SOLAR ENERGY PROVIDES  
DRINKING WATER  
RELIABLY WITHOUT POLLUTING  
THE ENVIRONMENT





NO NEED FOR ELECTRICITY OR OTHER  
INFRASTRUCTURE. SOLAR PUMPS  
ONLY NEED **SUNLIGHT** AND WATER WELLS.



# Solar pumps are good

in many ways. They are relatively maintenance – free if handled well.  
Their discharge rate is small. This makes it easy on the ground water  
aquifer while ensuring dependable water supply at the same time.



# THE ROAD TO SELF-SUFFICIENCY

Embracing solar technology in meeting water needs in remote rural regions is a sure step towards community independence. The program's partners will ensure that appropriate training is given to locals who can maintain the pumping and delivery systems to ensure constant water supply in their villages.



# PARTNERS IN PROGRESS: TEAM PLAYERS WITH A MISSION



WASMO  
(Water and Sanitation  
Management Organization)

is an autonomous official body of the larger Gujarat water board. Set up in 2002, it is manned by a diverse group of experts and advisors. WASMO's chief objectives are to lay the groundwork for the effective supply and distribution of drinking water in rural Gujarat, along with creating useful sanitation facilities in these areas where needed.

NGO allies: SAHJEEVAN

Founded in 1993, Sahjeevan is one of the most reputed NGOs in the state based in the district of Kutch. Water, social empowerment and gender related issues form its core focus. It has gained a valuable store house of knowledge from its work with water – ranging from conservation practices to leveraging new technologies and methods to bring water to as many deprived people as possible. Sahjeevan will provide that most valuable of services in this project – creating pathways for interface with target audiences.

Areas of Action –THE VILLAGES

This program of bringing water with the aid of solar technology will be carried out in almost 500 villages across different regions of Gujarat. Beginning with Kutch, it will spread in scale to include other districts of the state plagued by poor rainfall and chronic water scarcity.

Technical and project management assistance: AURORE

Based in the international township of Auroville near Pondicherry, AURORE (Auroville Renewable Energy) is a consultancy that advises on renewable energy in general and solar energy in particular. Its activities are composite in nature and consists of product development and supply along with project consulting and training. It carries out projects in every part of the country and works closely with many NGOs. Though in the forefront of renewable technology dissemination, AURORE perceives its work as fulfilling a valuable social and environmental need as much as a technological one.