



POWER GENERATION
FOR GENERATIONS

Delivering water reliably and efficiently using Solar energy



EXECUTIVE SUMMARY

SWACH is non-profit organization based in Udaipur (Raj.) and is a quasi government body.

SWACH means 'clean' in Hindi the national language of India.

It also stands for integrated Sanitation, Water and Community Health Projects in Rajasthan. The name serves a two-fold purpose partly explaining to the common man what the project is all about in addition providing development agencies and authorities with a focused and manageable team for project management.

QUICK FACTS

Site Location	SWACH, Kesariya, Devalia Lift, Badgi Village, District Dungarpur (Raj.)
System Capacity	Solar pumping system
Installation Type	60HP solar pumping system
Panel Type & Make	Novergy solar monocrystalline panels
Panel Capacity and Quantity	250wp x 176 Nos.
Solar pumping Controller	Novergy pumping controller



A-Site Image



B-Site Image



C-Site Image

HIGHLIGHTS

SCOPE

The project was to cover the entire gamut of activities –Engineering to Commissioning. Novergy was also responsible for Engineering, Supply, install, testing and commission (SITC) of the SPV pumping system. Novergy took up the challenge of preparing the site including civil work and finally supplying and installing the solar pumping system. This system has been able to cater to irrigation requirements for several acres of farmland. A modular system has been installed to ensure uninterrupted output from the pumping system.

CHALLENGES

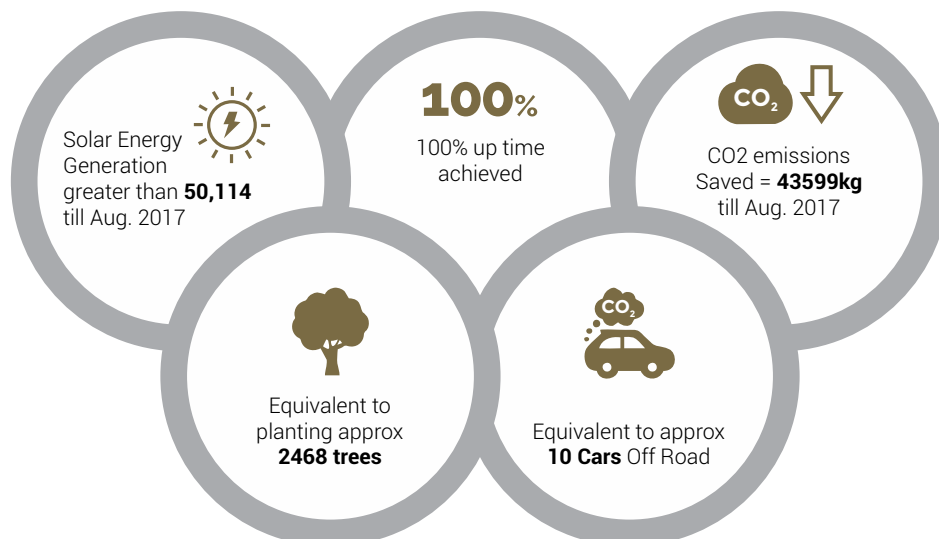
SWACH wanted to install a pumping system in a tribal and unelectrified area for irrigation purpose to provide water to farmers in that area. A reliable water supply would mean better crop and hence income generation for the farmers.

Since the village is not connected to grid, the other option was diesel and butane but this solution is expensive as diesel and butane prices are high and villagers cannot afford the same.

Novergy brought in resources to assist in developing a project and defining a sensible solution i.e. utilization of solar energy for irrigation water supply as a feasible and reliable solution especially for such remote locations far from power grid.

Using photovoltaic (PV) pumps has significant advantages where grid connection is not available as it helps avoid the dependence on recurring costs that can be incurred on diesel pump sets, etc.

KEY HIGHLIGHTS



BENEFITS

- The system requires no fuel or recurring costs and it has become an important part of the local community of farmers.
- They are now able to irrigate their crops plentifully and obtain a better harvest.
- The system is designed to have all necessary protections and optimized so as to achieve the best water output
- Since there are no recurring costs or dependence on unreliable power grid, the farmers are assured about water availability in all circumstances.

ABOUT NOVERGY

Novergy has been offering a range of solar solutions across the globe since nearly 11 years. We have the best and most reliable solar technology in the industry with various International and National bodies certifying, accrediting or approving our products and company. This is also the reason that our systems deliver the best energy output for the same rating of solar capacity.

Being an integrated player that covers the total chain of design, engineering, manufacturing, supply, installation and commissioning delivers an excellent customer experience which is reflected in our project execution and performance track record.

Novergy offers a range of solar solutions that include power plants, rooftop and captive power systems, solar lighting solutions, pumping solutions, solar telecom systems, solar microgrid, solar genset hybrid systems, etc. Our team believes in carefully analyzing each project requirement and then providing the most appropriate solution in the interest of the customer.

A true test of reliability of the products and systems is seen in the fact that despite having solutions in very diverse and harsh field conditions, Novergy has a NIL replacement record for the solar modules.

We believe in thoroughly analyzing our client requirements and then providing the most appropriate and reliable solutions to our clients resulting in highest customer satisfaction.

Contact Us

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