

Jain Irrigation Systems Limited

Solar Power Pumping | PRACTICE

Description:

Jain Irrigation Systems Limited (JISL) has pioneered the development of complete DC (direct current) solar agriculture pump systems in India. Indeed, it is one of the few manufacturers of such pumping systems across the world.

Matching components such as solar panels, controllers, pumps, screen pipes, casing pipes, filters are all designed and manufactured in-house by JISL, this would help ensure superlative performance and durability of the pumps.

The company has developed solar pumps for different capacities, with the most popular model—5 high pressure (hp)—being used by farmers to irrigate their agricultural fields. Additionally, the company has also developed BLDC (brushless direct current) motors that are highly efficient as they work in diffuse radiation (i.e., capable of providing 365 days of service) and can last for 10 hours.

Over last few years, JISL has installed more than 11,000 solar agri pumps which are connected with an online monitoring system. These pump sets have been commissioned across six Indian states.

Impact:

JISL's solar pump installations have reduced 49,604 tonnes of CO₂ emissions