

Solar Pumps for Agriculture in Karnataka: Sustainable Irrigation Solutions

Why Karnataka's Farmers Struggle With Irrigation

In Karnataka, where agriculture employs 55% of the workforce, farmers face erratic power supply and soaring diesel costs. The state's 300-day annual sunshine offers immense potential, yet traditional irrigation methods drain resources. Did you know 28% of farm expenses here go to energy? Solar pumps directly address this paradox of abundant sunlight being wasted on costly, unreliable power.

Solar-Powered Irrigation: Karnataka's Game Changer

The PM-KUSUM Scheme subsidizes 90% of solar pump costs for Karnataka farmers. Our 3HP-10HP systems deliver 50,000-200,000 liters daily, matching borewell depths up to 200 meters. Compared to electric pumps, users save INR18,000 monthly on average. A Belagavi farmer recently doubled crop yield while eliminating diesel expenses entirely.

3 Key Advantages for Karnataka's Conditions

- Monsoon-ready design with 25-year panel warranties
- Automatic water shutoff prevents overflow in rice fields
- Mobile app monitoring for remote irrigation control

Case Study: Solar Success in Tumakuru District

Raghavendra Gowda replaced his 5HP diesel pump with a 7.5kW solar system. Initial INR3.2 lakh investment recovered in 18 months through:

- Zero fuel costs (INR11,500/month saved)
- Extended growing seasons enabling triple cropping
- Government subsidy covering 60% upfront cost

FAQs: Solar Pumps in Karnataka

Q1: How do pumps function during cloudy days?

Our hybrid models integrate battery storage, ensuring 72-hour continuous operation regardless of sunlight.

Q2: What maintenance is required?

Quarterly panel cleaning and annual motor checks - simpler than maintaining diesel engines.

Q3: Are subsidies available for existing pump replacement?

Yes, Karnataka's Renewable Energy Policy offers 50% subsidy for replacing electric/diesel pumps with solar



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alternatives.

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