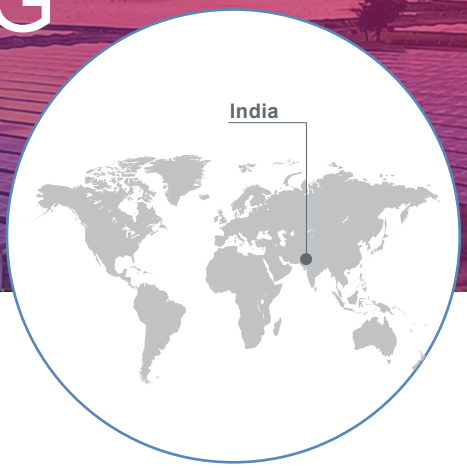
2.5 MW DC UTILITY SOLAR PLANT EMPOWERING FARMERS IN RAJASTHAN



THE CHALLENGE:

The Angiralime Utility PM Kusum power plant is located in Malaksar, a remote rural village in Rajasthan where extreme desert conditions - intense heat, dust, and limited infrastructure - pose a serious challenge for large-scale solar equipment. Deployed under India's PM Kusum Yojana scheme, which enables farmers to monetise barren land through grid-connected solar plants, the project required inverters capable of delivering reliable performance in harsh outdoor conditions while offering simple, remote monitoring without the need for on-site technical resources.

THE SOLUTION:

Beta Tech deployed 6 Solplanet ASW 350K-HT utility-scale inverters paired with Navitas Solar 590 W bifacial modules, achieving a total installed capacity of 2.5 MW DC. The Solplanet Ai-Logger 2000 provides full remote monitoring, remote parameter configuration, and firmware updates - eliminating the need for on-site visits in this remote location. Its A-BUS technology enables seamless PLC communication, reducing cabling costs significantly. The plant feeds 100% of its generation into the grid, creating a steady additional income stream for local farmers under the PM Kusum scheme.

"We chose Solplanet inverters together with the Ai-Logger 2000 because A-BUS PLC communication saves us the cost of laying RS485 cables. The whole communication system is easy to manage, and we have already selected Solplanet for our upcoming 2 MW+ projects."

Aman
Installer-Beta Tech

CONTEXT

Location:
Rajasthan, India

Commissioning:
06/2025

Segment:
Utility

Installer name:
Beta Tech

EQUIPMENT

Inverter:
6 x Solplanet ASW 350K-HT

Other component:
Solplanet Ai-Logger 2000

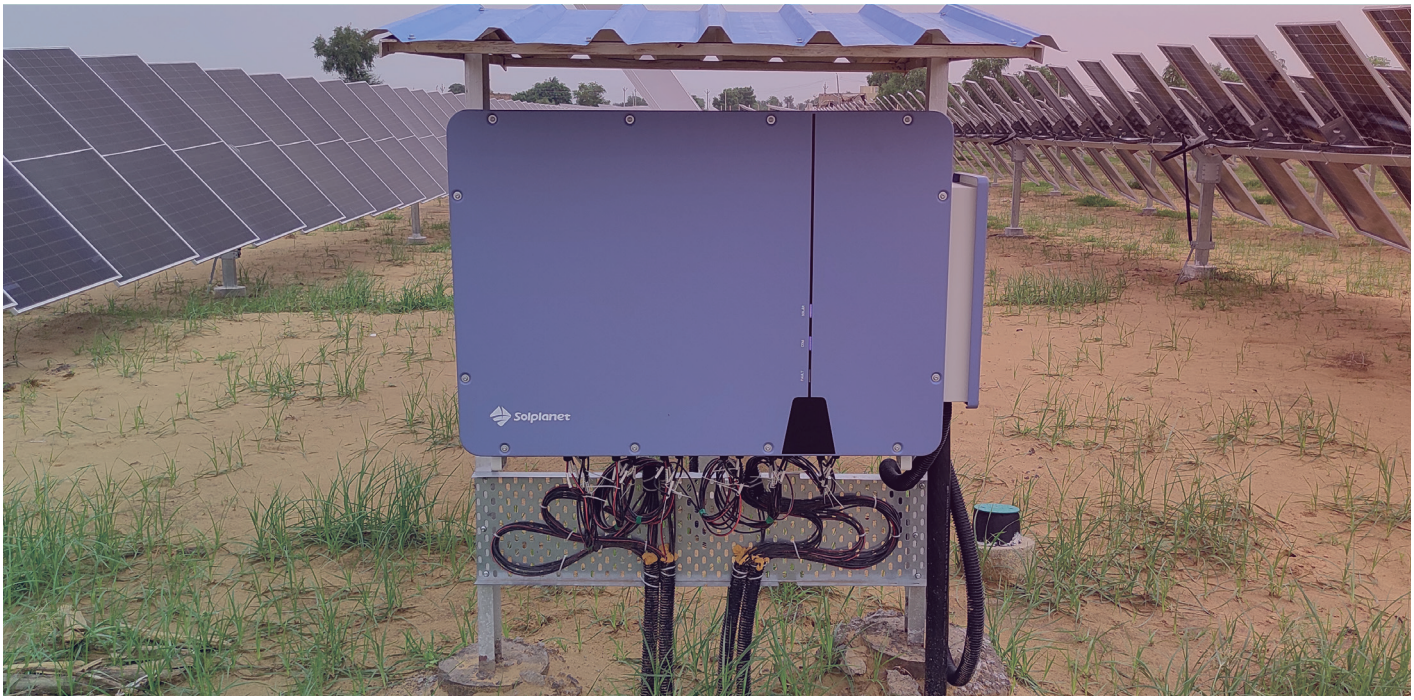
Installed capacity:
2.5 MW DC

RESULTS

Annual yield: 5,000 MWh

Savings: Ext. € 11,500,000

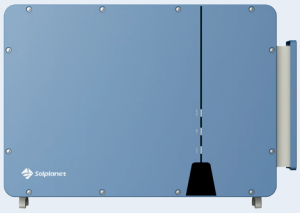
CO_2 reduction: 4,100 tons / year



PRODUCT INFORMATION

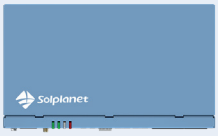
INVERTER Solplanet ASW 350K-HT

- Efficiency > 99%: maximum energy harvest from every kWp installed
- 75 A MPPT current: fully compatible with high-power PV modules
- IP66 & C5-M protection: built for harsh outdoor conditions, from hot summers to cold winters
- Smart IV curve diagnosis: string-level monitoring for fast fault detection and efficient O&M
- PLC communication: lower cabling costs and stable data transmission across large sites



Solplanet AI LOGGER 2000

- A-BUS PLC communication: data over the AC cables, with no dedicated RS485 cabling needed
- Up to 180 devices: inverters, meters and environmental sensors managed from a single node
- Remote management: parameter settings and operating control without site visits
- Encrypted communication: data desensitization and secure links to protect plant data
- Built for extreme environments: long operational uptime in desert heat and dust



ABOUT US

Solplanet is a smart energy global provider with more than 70 GW shipped and a sales and service network spanning over 100 countries. Backed by Aiswei power electronics expertise since 2009, ranked among the world's top providers of residential inverters and energy storage, we combine proven engineering with more than 300 international certifications — bringing reliable, intelligent solar power to everybody, everywhere.

WHY CHOOSE SOLPLANET?

- Strong warranties that protect your investment
- Local technical and commercial support when it matters most
- AI Mode smart energy management for real-time optimisation
- Certified quality, backed by 300+ international certifications
- Seamless monitoring and connectivity, from inverter to app

GET IN TOUCH WITH US:

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