UTILITY-SCALE SOLAR IN EASTERN TÜRKIYE



THE CHALLENGE:

In Iğdır, eastern Türkiye, a 1,7292 MWp ground-mounted solar project was developed to help the investor offset its electricity consumption through net metering. The local climate is demanding: hot summers, cold winters and changing weather conditions throughout the year, with all equipment fully exposed outdoors. The inverter solution had to withstand these conditions while handling the scale of a utility installation. At the same time, the system design needed to stay practical and straightforward, both for installation and for long-term operation.

THE SOLUTION:

The plant was equipped with five Solplanet ASW 350K-HT inverters, the first installation of this model in Türkiye, connected to 3,144 half-cut modules rated at 550 W. With 75 A MPPT current, the inverters are fully compatible with high-power modules. Maximum efficiency above 99% secures the highest possible energy harvest. IP66 and C5-M protection, together with an operating range of -30°C to +60°C, keep the system running reliably in every season. Smart IV curve diagnosis and string-level monitoring enable fast fault detection, and PLC communication reduces cabling costs across the site. The project is now Solplanet's first local reference for high-power string inverters in Türkiye's ground-mounted segment.

"For a project of this scale, choosing a reliable inverter solution that can perform under changing weather conditions was essential. The Solplanet ASW350K-HT offered the capacity and design flexibility we needed for this installation. As the first project in Türkiye to use this model, it also represents an important step in expanding our experience with high-power solar solutions."

Installer,
Iğdır Ground-Mounted Solar Project

CONTEXT

Location:
Iğdır, Türkiye

Commissioning:
2026

Segment:
Utility

Installer name:
Iğdır Ground-Mounted Solar Project

EQUIPMENT

Inverter:
5 x Solplanet ASW 350K-HT

Installed capacity:
1,7292 MWp

RESULTS

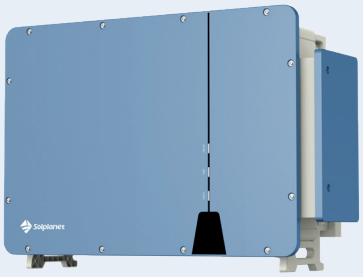
Annual yield: ~2.750.000 kWh.
CO_2 reduction: 1,717 tons / year
Self-consumption: 100%



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



WANT TO KNOW MORE?

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

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