Mula Solar Power Plant

with Spain | Anatrac

Engineering, supply and construction of a photovoltaic project with 493.74MW peak power that covers an approximate area of 1,000ha belonging to the municipality of Mula in the province of Murcia.

Located in the municipality of Mula, within the province of Murcia, this large-scale photovoltaic project spans approximately 1,000 hectares and delivers a peak power capacity of **493.74 MW**. Designed to optimize efficiency and long-term sustainability, the plant integrates state-of-the-art solar technology with robust infrastructure to ensure reliable energy production and seamless grid connectivity.

Key Features of the Solar Power Plant:

- **Ground-Mounted Photovoltaic System:** The installation is based on a **3V fixed metal structure**, ensuring durability and stability under various environmental conditions.
- **High-Efficiency Solar Modules:** The plant utilizes **polycrystalline photovoltaic modules**, known for their cost-effectiveness and reliable energy output.

- **Advanced Electrical Network:** A **30 kV medium voltage internal distribution network** efficiently transmits generated power within the facility.
- **Dual Electrical Substations:** Two strategically located **electrical substations** are interconnected via a **132 kV underground high-voltage line**, ensuring optimized power flow and system resilience.
- **High-Voltage Energy Transmission:** A **400 kV high-voltage network**, spanning approximately **20 km**, facilitates the evacuation of generated electricity to the **ST El Palmar** node within the national **Transportation Network**.

This project represents a significant step forward in Spain's transition to **renewable energy**, contributing to the region's sustainability goals while reinforcing the reliability and efficiency of the national power grid.

End User: Promosolar JUW17 S.L.U.

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Collaborators: EPC Cobra, supplier of 20 weather stations Anatrac A&I S.A.

Measured Parameters: GHI with MS80 and POA with MS-80A

Field: PV Monitoring

Challenges: Possible electromagnetic interferences due to cross pass of medium voltage cables with the ones coming to the weather station data logger. Sensors and cables should be immune to the possible interferences generated there.

Installation Date: 2019

Plant Poser/Size: 500 mu

Location: Murcia, Spain

EKO Beyond Accuracy.

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