Created in 2005, JMB Energie first set up in the wind power market. In 2008, the company created JMB Solar, a wholly-owned subsidiary dedicated to solar power. This young, renewable electrical production company, based in Villeneuve-lès-Béziers, was the first in France to think about offering the managers of parking areas for caravans, cars and trucks the chance to cover their sites with solar panels.

The idea of allowing the managers to “protect the vehicles, increase their prices and receive a rent” has been really well received.

Following the construction of the first 680 kW “photovoltaic carport” in Vias (Hérault), JMB began the construction of a 4.5 MWp project alongside highway A9 at Vendres (Hérault). This involves the installation of 31,000 m² of solar panels at a Truck Etape lorries stop with a capacity for 330 trucks.

In order to get the earliest possible return on investment, JMB Solar wanted to implement its power station as quickly as possible (6 months) by bringing in reliable, competitive players able to provide winning technical solutions. They entrusted this contract to a Schneider Electric and ETDE Marin (Bouygues subsidiary) joint venture company.
Solution:
Turnkey electrical contract including:
- Selectivity studies
- DC studies for cabling and associated losses
- Design of the installation’s earthing network
- Design and installation of the electrical system between the solar panels and the power grid including Xantrex inverters
- Design and supply of the site supervision system
- Entire management of the turnkey electrical package and coordination of partners and subcontractors
- On-site commissioning of all electrical equipment

Electrical network:
- 4 X 1000 KVA prefabricated transformation Bocage type, equipped with:
  - > 2 Xantrex GT500E-GIF inverters
  - > 1 X 1 000 KVA low loss transformer
  - > 1 MV compact switchboard RM6 type
  - > 1 LV switchboard
  - > 1 PLC cabinet to capture monitoring data
  - > 1 UPS
- 1 grid connection of 20 kV
- 48 array boxes

Supervision and control of equipment
- Support for maintenance and exploitations activities
- Evaluation of availability
- Weather monitoring
- Centralisation of information
- Creation of graphics and reports
- Data storage
- Management of remote and multiple access

OTHER REFERENCES
- Ground-based arrays
  - Spain - Almería (7.76 MW)
  - Germany - Rote Jahne (6 MW)
  - France - Vinon Sur Verdon (4.2 MW)
  - France - Les Mées 1 - La Mouisse (12 MW)
  - France - Le Gabardan (20 MW)
  - France - St Clar (8.9 MW)
  - France - Les Mées 2 - Haute Montagne (12 MW)

- Italy - Cellino San Marco - AES (43 MW)
- Italy - Solare Roma - SunPower (15 MW)
- France - St Hilaire du Rosier - Solaire Direct (6 MW)
- France - Callian - Eneryo (7.4 MW)
- Buildings
  - Spain - Saragossa (10 MW)
  - Spain - Villacañas - Toledo (2.5 MW)
  - Spain - Molina De Segura - Murcia (300 KW)
  - Reunion & Mayotte Islands - 7 Casino stores (16 MW)