



A bankable solar investment

STURDINESS AND DURABILITY

- ✓ EXOSUN leads rigorous simulation programs (calculations, dimensioning), as well as validation tests, such as accelerated wear tests, which determine the life expectancy of our tracking systems.
- ✓ All the mobile mechanical organs were submitted to tests equivalent to over 40 years of operation in real conditions, without notable wear or degradation.

Mechanical organs	MTBF (mean time between failures)
Bearings	> 10 000 years
Motors	100 years
Variators	59 years
Reduction gear	39 years



EXPERIENCE AND AVAILABILITY



Submitted permits ●
Installed plants ●

- ✓ 4 solar plants, **3350 Exotracks**, almost 4 MWp capacity.
- ✓ Around fifty building permits and preliminary declarations submitted to State services. Represents **over 300 MWp**.
- ✓ The number of accumulated hours in operation of our trackers at the end of December 2010:
 - Approximately **12 million**
- ✓ Availability of our solar plants in 2010:
 - **99,9 %**

GARANTIES

- ✓ As a certified engineering office, we have subscribed a legal liability contract with Groupama that guarantees the production forecast calculations for our solar plants.
- ✓ All materials supplied by EXOSUN are **guaranteed 20 years** for parts and workmanship.
- ✓ Our systems are guaranteed up to **99% availability**.

CERTIFICATIONS

- ✓ EXOSUN holds dual ISO 9001 and ISO 14001 certifications for its entire range of activities (design of solar tracking systems, engineering, solar plant installation and maintenance).



- ✓ The foundations, electrical design and load distribution of our installations are **validated by external control offices**. (Veritas et Apave).



- ✓ All EXOSUN products are valid regarding European Conformity standards. **CE**

REMOTE MONITORING

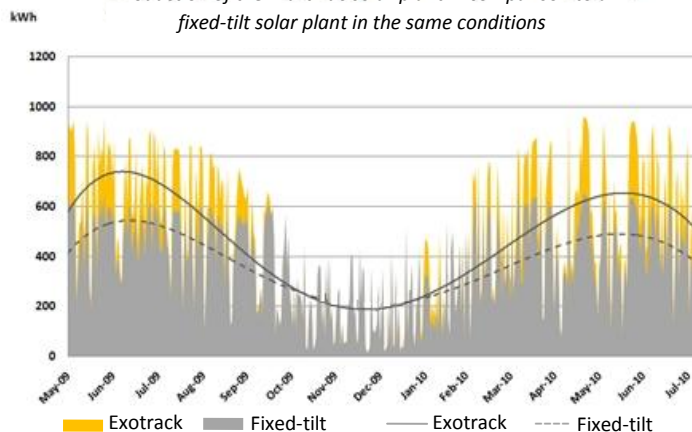
- ✓ Our maintenance teams monitor and control the plants at a distance thanks to a **remote control system** :

- Follow-up of mechanical parts include:
 - Motors
 - Temperature of the motors
 - Tracker positioning in relation to the sun
 - Plant safety condition
- Remote monitoring:
 - Positioning of trackers into safety position (example: following a weather forecast alert)
 - Reintroduction of backtracking parameters
 - Position modifications
 - Positioning of trackers for maintenance



PRODUCTION OPTIMISATION

Production of the Martillac solar plant in comparison to a fixed-tilt solar plant in the same conditions



- ✓ Exotrack produces up to **40% more electricity** than a fixed-tilt system.
- ✓ For a given energy output, our solutions require **30 to 40% less solar panels** than a fixed system.

LEADING CLIENTS

- ✓ EXOSUN works with France's market leaders in the development and operation of ground mounted solar plants through framework agreements that represent hundreds of MWs.

