

## MiChroSat in Action: Solar Energy Assessment

### MiChroSat 2403



For more details on the new MiChroSat 2403 visit:

[www.michrosat.com](http://www.michrosat.com)

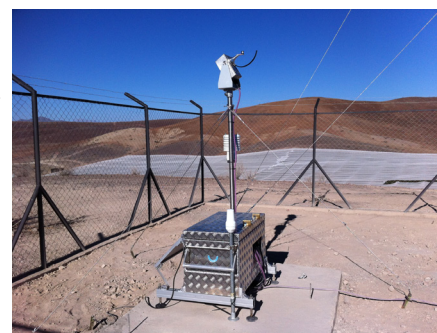
### The challenge of Solar Assessment

Finding a suitable location is one of the biggest challenges in renewable energy. For a solar installation to be successful it has to deliver a consistent and reliable supply of energy and in order to do this it must be situated in exactly the right place. To justify the investment that a solar thermal power plant requires, developers need detailed knowledge of the environment.

### Solar Millennium – experts in renewable energy implementation

Solar Millennium, a German project developer for solar thermal power plants, has undertaken solar energy resource assessment projects in many different territories, gathering radiation and climatological data to assess the suitability of particular locations.

Since these sites are often in remote and inaccessible desert locations, data gathering stations have to be designed to withstand harsh conditions, they need to be robust, efficient and low-maintenance. As it's impractical and hazardous to retrieve data manually, these measurement stations also need to provide reliable and secure remote connectivity so that data can be collected and monitored.



### Wireless Innovation – experts in satellite connectivity



To provide the reliable data backhaul required for a recent solar energy assessment project in the Atacama Desert in Chile, Solar Millennium turned to the MiChroSat 2403 satellite modem from Wireless Innovation.

Wireless Innovation's MiChroSat 2403 is an Iridium based solution that provides secure, reliable satellite connectivity in places where GPRS coverage is poor. It's a flexible and programmable solution that removes any reliance on the existing terrestrial infrastructure.

MiChroSat 2403 allows data logging solutions to be deployed in remote and hostile locations, seamlessly integrating with the industry standard Campbell Scientific data loggers to provide secure, reliable connectivity over the Iridium satellite network.

Due to their extensive experience in renewable energy and detailed technical understanding of the entire infrastructure, Wireless Innovation were able to provide Solar Millennium with a complete end-to-end solution, integrating the Campbell Scientific CR1000 data loggers into the Iridium network and providing Solar Millennium with a satellite data service that suited their needs precisely.

### About Solar Millennium AG

Solar Millennium AG is a company that operates globally in the renewable energy sector, with its main focus on solar power plants. Together with its subsidiaries and associates, the Company specializes in CSP (Concentrating Solar Power) plants, particularly parabolic trough plants.

The Company covers all important business sectors along the value chain for solar power plants: from project development and financing to technology and the turnkey construction and operation of power plants. Solar Millennium realized Europe's first parabolic trough power plants in Spain (Andasol) as well as the first modern parabolic trough solar field in Egypt.

### About Wireless Innovation Ltd

Wireless Innovation Ltd is one of the UK's leading suppliers of wireless communication solutions, specializing in delivering complete, end-to-end communications solutions.

With more than 15 years' experience in delivering mission critical data, Wireless Innovation is able to provide solutions based on satellite, cellular or radio technology. Wireless Innovation have worked extensively in the renewables market and provided solutions for Wind Assessment Towers, LIDAR and Wind farms, Solar assessment projects resource assessment and resource monitoring and were awarded the Queens Award for Enterprise in 2010.