

## Desert Knowledge Australia Dual Axis Tracker Demonstration

**Project Location:** Alice Springs, Northern Territory, Australia

**Client:** CAT Projects for Desert Knowledge Australia

**Completed:** January 2009

### Project Objectives

The Desert Knowledge Australia Solar Centre compares the long-term performance of various solar PV technologies and installation methods in order to assess the performance of each system type. For demonstration and research purposes, Solari Energy (formerly Solar Inception) implemented a large-scale dual-axis solar PV tracking system with maximum light following technology. A fixed-tilt, north-facing ground-mounted array was also installed to provide a benchmark for comparison.

### Services Provided

Solari Energy provided project management, design and full turnkey EPC services for a 31.25 kW Large-Scale Dual-Axis Tracking PV Plant Solar Technology Demonstration Facility at Alice Springs, Northern Territory. The installation consists of 6 DEGERtraker 5000HD dual axis maximum light detection trackers with 175 W solar PV modules and SMA Sunny Mini Central inverters. A 5.25 kW Static Ground Mount PV Generation Plant consisting of 175 W solar PV modules and a SMA Sunny Mini Central inverter was also installed as part of the project.

A key part of the project was installing a comprehensive and robust control and monitoring system to provide long-term datalogging facilities back to the Desert Knowledge Australia Solar Centre for demonstration and research.

