

Commercial Solar Thermal Case study

Sun City – South Village



Sun City is a large resort in the North West Province of South Africa.

The majority of the resort's staff is housed on-site in specially designed accommodation.

alt.enerPro undertook an unique project to make the accommodation more sustainable.

Facts and figures

alt.enerPro replaced 396 x 4kW electrical geysers with 217 Solahart 302J systems.

On site, real-time data logging and monitoring systems have been installed.

Needs

Sun City needed a more efficient hot water delivery method and needed to reduce their energy consumption.

Solution

alt.enerPro designed a unique solution that would enable Sun City to make considerable savings on electricity usage in this part of the resort.

The design of the solution called for a base line to be established before the installation of the 217 Solahart systems.

This enables Sun International to verify the savings guaranteed by alt.enerPro.

There was an electrical demand reduction of 0.8 MW and projected consumption savings of 960 mWh/year.

The expected payback for this solution is believed to be a 3 year period.

Due to time constraints all 217 systems were installed and commissioned over an eight-week period.



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