

Commercial Solar Thermal Case study

Sun City – Staff 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.

The accommodation units range from 1-4 bedrooms. alt.enerPro undertook a benchmarking project on a small section of the staff village.

Facts and figures

alt.enerPro redesigned and decentralised the boiler/ring main system and installed 14 Solahart 302KF 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 a case study that would demonstrate potential savings as well as improving the resorts Heritage® rating.

Solution

alt.enerPro redesigned the hot water delivery system and reduced energy consumption by 77% from 7,19kWh/100 litres to 1,62 kWh/100 litres for 44 staff units.

Added to this alt.enerPro also managed to reduce the electricity supply to the staff village by 66%.



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