

Commercial Solar Thermal Case Study

Lebone II - College of the Royal Bafokeng



The Lebone II - College of the Royal Bafokeng is a green development a short distance from the Royal Bafokeng stadium in the North West Province of South Africa.

The Royal Bafokeng funds this school.

It has two hostels and a number of faculty homes.

Facts and figures

2 x Solahart Heatstore 1500 systems with 12 x Bt collectors were installed for the student hostels.

4 x 302Kf and 7 x 181kF systems were installed for the teacher's accommodation.

Needs

Maintain the environmentally friendly credentials of the Lebone College and reduce energy costs.

Solution

Solahart designed and installed 2 x Solahart Heatstore 1500 systems with 12 x Bt collectors in total, each feeding separate student hostels.

This solution is a drain back system (failsafe mode of operation) preventing overheating in unoccupied times of the year.

4 x 302Kf and 7 x 181Kf systems were installed on the teacher's accommodation in order to reduce costs and save energy.