

# Commercial Solar Thermal Case study - BHP Billiton - Hotazel



This magnesium mine near the town of Hotazel gave rise to a 600 house village.

With the demand for iron from China the mine has experienced a revival and is investing in its staff accommodation.

The 217 housing units developed by the mine house between 1-2 people each.

## Facts and figures

217 Solahart 181Kf systems with a total collector area of 403m<sup>2</sup> were installed.

## Needs

BHP Billiton wanted to reduce its impact on the national grid by offsetting the electricity required to heat water on its housing units.

The reduction helps it to maintain electricity supply from Eskom destined for its mining operations.

## Solution

Solahart installed 217 Solahart 181Kf solar water heaters.

The installation results in a total demand reduction of more than 300kVA, a total collector surface of 403m<sup>2</sup> and 37758L of hot water storage at 55°C.

