

# Silverton Primary School

## Energy Efficiency Upgrade



The Department of Education and Early Childhood Development engaged Enman to conduct an energy and water audit for Silverton Primary School. The audit identified a number of energy and water efficiency projects. The schools major energy use was the use of split system air-conditioning for heating and cooling of the four learning centers. The split A/C system although provided good comfort levels was very energy intensive and a significant cost factor.

The audit recommended using an evaporative cooler with an integrated gas heating system. An evaporative cooler can reduce energy consumption by as much as 80% but is less effective in very humid conditions.

The department of Education and early childhood Development decided to implement the changeover of the split A/C system to the recommended evaporative cooler with an integrated gas heating system as a pilot project to demonstrate the viability of using this energy efficient cooling and heating system.

The project was implemented with great success. Enman provided the design and specification for this pilot project development. The audit report shows that it is quite viable to reduce energy use in the school by 40-50% depending upon how efficiently the energy is being used in the school.

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