

CASE STUDY:

Sydney domestic home owner reduces his quarterly power consumption by 66%, and reduces his carbon footprint significantly for the next 25 years.

Summary

After receiving significant quarterly power bills and having an interest in reducing both his power bills and carbon footprint, Sydney home owner John Hanson engaged ENSOL Systems on a consultancy basis to look at ways to achieve his goals.

On completion of the ENSOL audit it was recognised that there were four main areas where he could reduce electricity load.



LIGHTING

The house had over 95, 50W Dichroic downlights, with some being on & off dimmers. By changing to an 10W LED downlight, the change out not only reduced his lighting load by 85% but was able to put in a better coloured 5000K cool white which was whiter and delivered a crisper white light in the kitchen and bathrooms.

POOL

With his pool filtering for 8 hours a day ENSOL recommended a new 3 speed pool pump. This delivered a 75% energy saving when he is using the pump.

REFRIGERATION

The refrigerator / freezer was fitted with a state of the art plug & play energy saver, this saved 20% of the ongoing refrigeration & freezer running costs.

HEAT

With two high windows picking up the western sun for a significant amount of the day, the house had a considerable amount of increased heat load. By installing special heat resistant blinds. The house reduced the heat increase by 86% but maintained 74% of the natural light.





CASE STUDY: continued

SOLAR

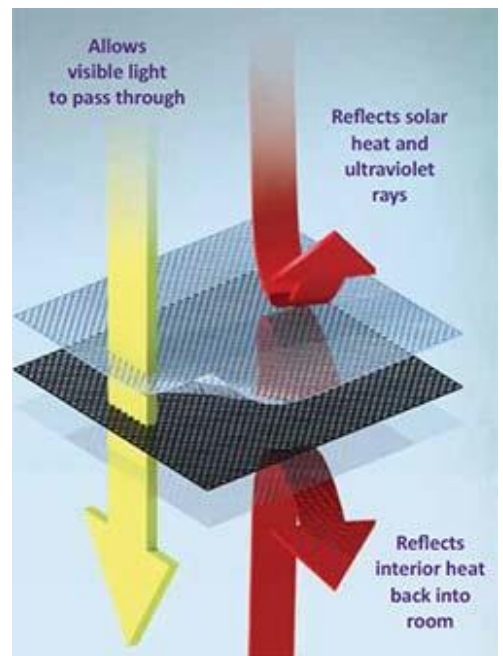
ENSOL Systems recommended installed a Solar System that could utilize the western sun and supply power that could be utilized at a time that suited the household.

The energy generated was utilized to coincide with the pool filtering.

The 4kW micro-inverter system generated up to 26kW hours per day in the summer months which was more than sufficient to meet the households increased usage over the summer.

"I've never been in more anticipation in getting a power bill, the results exceeded my expectations. Thanks to the guys from ENSOL, they did a great job!"

John Hanson
International Marketing Manager
Solairworld



TEKNIK
LIGHTING SOLUTIONS

INFLECTOR

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