

50 Solar Water Heating Installations For Housing New Zealand

Solahart has successfully completed two Housing New Zealand contracts in the Auckland area for the installation of 50 solar water heating systems. This was a pilot scheme which may be extended throughout New Zealand if funds became available. In most cases the homes were occupied by large families on low incomes and many were delighted to have their hot water capacity doubled with the added benefit of the solar savings on their electricity bills.



The Warehouse Installs Solar Systems on its Outlets

The Warehouse has contracted to Beasley for the installation of a solar hot water system on each of its new outlets. So far, systems have been installed on the Dunedin, Alexandra, Motueka, Tauranga, New Plymouth, and main Wiri distribution centre in South Auckland. The systems installed are Beasley 330 Prestige HTM systems and 180 Solar Plus systems. A retro-fit programme of existing Warehouse outlets has been agreed and will be successively implemented.



St Margarets Hospital Reduces its Electricity and Network

St Margarets Hospital in Te Atatu, Auckland has installed four Beasley Prestige 330 litre systems connected to the eight existing hot water storage cylinders located in the roof cavity. These act as a solar preheater for the hot water system, enabling power to be redistributed during the day. With the installation of an automated electricity load-shedding, management system, the electric hot water boosters are able to be turned off at peak electricity demand times. It has been assessed that around 4200kWh (60%, \$800 pa) of electricity savings have been achieved from using solar energy to heat water, and an additional 24kW of controllable electricity is able to be switched off at peak electricity demand times. This has contributed to the hospital being able to negotiate a lower electricity connection contract with the local electricity network company because a smaller transformer was necessary at the point of supply. A line charge saving of \$20,000 per annum has been realised.



Even the Chatham Islands School goes Solar

The Chatham Island Community School has installed eight H300 Sola60 solar panels (35m³) to provide heat via a 50kw heat exchanger to the swimming pool. The total running cost of the systems is as low as \$5 per month and the children are now able to swim without wetsuits from October to early March. The pool temperature now reaches a high of 27 degrees C.



For further information on solar water heating visit
www.solarindustries.org.nz