

# Why Sunshine Solar?

Save Up to 85% on Water Heating

Compare for yourself, the Department of Building and Housing have made mandatory testing for all solar panels in New Zealand, the performance of these are public information. Sunshine Solar products are in the top 5% performers in their category, for both solar and hot water heat pumps. Check out your savings at, [www.energywise.govt.nz](http://www.energywise.govt.nz).

Performance tested to ASNZS4234 by Project Solar at Otago University and robustness tested to ASNZ2712:2007 at Applied Research Laboratories in Nelson.

## Here's What Our Customer's Say...

Solar water heating is a smart investment. With current interest rates we make more dollars from having that money on the roof than we could get from putting it in the bank!

**Graeme Vickers**

Sunshine Solar offered us a quality product with the latest technology. This has proven to be cost effective and an excellent investment. I can recommend Sunshine Solar for their latest technology expertise and back up service.

**Andrea Stocks**

We can't tell you how thrilled we are with our new Solar Water Heating System! It is such fun watching the water heat on its wee dial that shows the water temperature. The team of men that installed it were amazing and helpful. We are also enjoying the low electricity bills, while still enjoying a bath every night.

**Val and Barrie Weir**

## Just look at the benefits!

- Extremely competitive pricing
  - Huge power savings
- Powerful year round performance with evacuated technology
- Purpose built smart controllers to manage overheat and auxillary heating
- Free design service to suit your house and family needs
  - Local installers
  - Technical expertise
- Attachable to your existing cylinder
  - Frost proof
- Detailed consent documentation
  - Tested in NZ conditions (meets ASNZS2712 2007)
- Up to 85% of your hot water all year round for free!

## Government Grants\*

Take advantage of up to \$1000 EECA Government Grant. Sunshine Solar Systems have been modeled extensively to enable their customers a great range of systems, including retrofits, and the benefits of these savings.

\*Subject to availability and EECA conditions

For your free quote and more information contact:

Advanced Solar Technologies Ltd.

Call free 0800 786 744

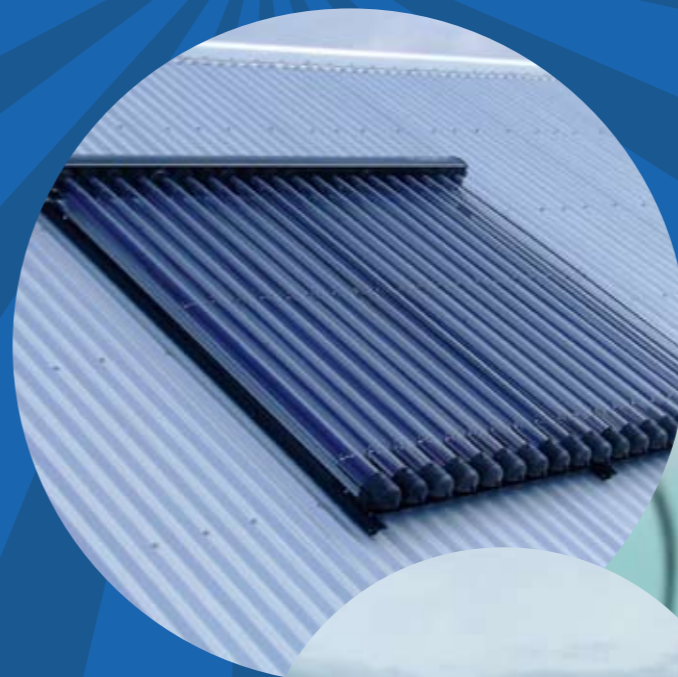
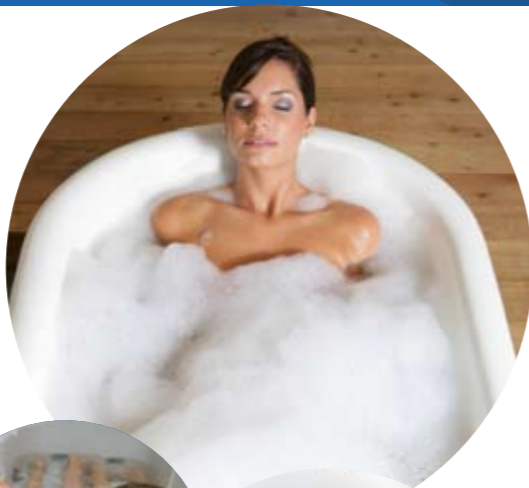
Or 03 342 1050

Email: [info@sunshinesolar.co.nz](mailto:info@sunshinesolar.co.nz)



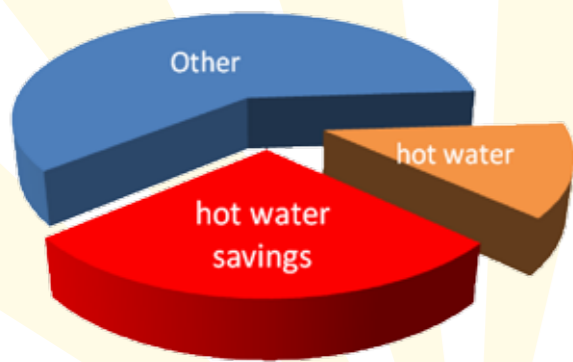
# sunshinesolar™

## The new generation of Solar Water Heaters



## Solar Energy is Free Energy





### Did You Know?

Hot water typically makes up 40% of your homes energy bill. With a monthly hot water bill for most average families over \$100 and with power likely to at least double in the next 10 years that represents \$20,000 you are likely to spend on heating water in this time. You can save on your hot water bill with a water heater system from Sunshine Solar.

### System Designed to Meet Your Needs

Whether you are after a wetback, gas, hot water heat pump, central heating, have a spa, a pool or multiple cylinders, Sunshine Solar has a design that will integrate all systems together into a seamless package. Our team can organize the concept to completion including the consent process for you.



### A Smart Investment

Save up to 85% on water heating and keep your money in the bank. Our Multisensory control system ensures you get the most out of your investment whilst being fully informed of system operation and performance. It provides fully automated back up heat as required. The controller will turn on the electricity or gas to heat the water to the desired temperature if it has not been reached for the day allowing you comfort and peace of mind. These controllers seamlessly integrate and automate solar heating to match your lifestyle while maximising the return on your investment.

### We Guarantee Quality

Sunshine Solar water heaters are AS/ NZS2712:2007 certified. Our systems have been independently tested, meeting rigorous quality and performance standards including frost and hail protection. The powerful results show effectiveness in New Zealand conditions. The Sunshine Solar team are committed to on going research and development within NZ technical institutions to gain you the performance, savings and confidence in your system and future use of solar energy applications.



### Experience & Commitment to Optimum Design for Optimum Performance and Optimum Savings

Sunshine Solar has over a hundred configurations to optimize efficient water heating in your home. Whether it is for a new house, commercial use, multi-tenancy dwelling, industrial application or residential retrofit take advantage of our experience and commitment to providing you with optimal design and energy savings to meet and exceed your expectations!



### Year Round Performance with Evacuated Tube Technology

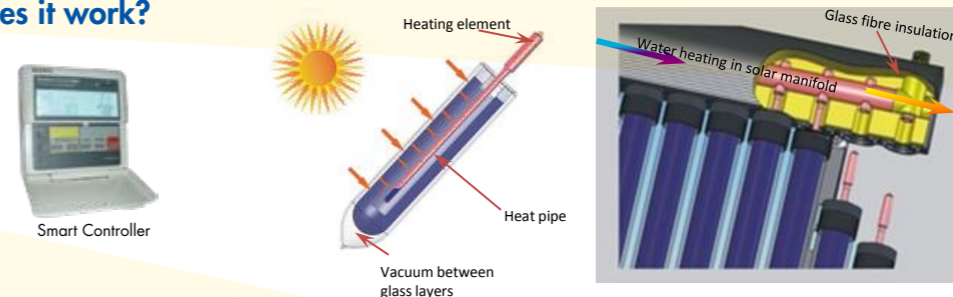
Evacuated Tubes have revolutionised the solar industry, now heating water with solar energy is more than a summer option. They are also attachable to your existing hot water cylinder, saving you the cost of a cylinder upgrade!

The tubes are evacuated like double glazed windows stopping heat loss out of the system. The water is always well insulated meaning you can gain solar energy in even below zero degree outside temperatures.

More energy is used on heating water in the winter due to colder water temperatures and demands for hotter longer showers. On cold frosty days when the sun is out they are working for you in heating your water and even pick up energy on cloudy days. This system is particularly useful in saving energy all year round. Other advantages include frost protection. The multifunctional controller automatically manages the temperatures on the roof and in your cylinder to give you comfort and peace of mind.



### How does it work?



Our systems work by capturing the solar UV radiation in an absorbent coating on the outside of the inner glass of the solar tube. This heat is then transferred through the glass through aluminum fins to a heatpipe. The hydrocarbon in the heatpipe is under a vacuum and therefore boils at very low temperatures. The liquid moves the heat up through the heatpipe to the manifold where it is captured in a heat exchange by the water flowing from the Hot Water Cylinder. The heated water is always insulated and protected from the environment. This is similar to how a wetback operates but with a lot more control.

### Maintenance Free

Your Sunshine Solar system is expected to last as long as the roof it is installed on.

Specifications	System		
# Of Tubes	20	30	40
Total Width	1660	2460	3220
Total Height	1960	1960	1960
Full Stand Height (If required)	1450	1450	1450
Collector Area (m2)	2.1	3.1	4.2
Gross Area (m2)	3.3	4.8	6.5
Total Weight (Kg)	61.2	90.6	122.3
Avg Power/Day (KwH)	5.3	7.9	10.6
Min. Cylinder Size	135	180	270
# Of People in The House	1-2	2-4	4-7

Systems are sized on the amount of hot water you require by specifying the number of heating elements (tubes) in your system. Other factors like water pressure, location, shading, roof slope and orientation also have an impact.

For optimum results talk to one of our trained consultants or visit us on-line with your plans.



**Exceeding Your Expectations!**