

Systems to suit your Lifestyle

Whether you want to retrofit solar heating onto your existing hot water system or incorporate it into a new house, take advantage of our in-house experience and industry-leading design service.

Retrofit

You don't necessarily have to replace your existing hot water cylinder. EcoSolar systems can be retrofitted on to existing hot water systems. Our retrofit systems and kitsets offer faster paybacks, as well as both short and long term flexibility to ensure your lifestyle needs are always catered for.



New Installations

Our industry-leading design service will ensure maximum savings are achieved whilst meeting and exceeding your expectations for hot water provision. Whether it's for a new house, a multi-tenancy dwelling, or a commercial/industrial site, take advantage of our experience and our commitment to providing you with the best possible solution.



Unobtrusive and Aesthetically Pleasing Systems

Systems can be designed to blend into the house design and ensure that aesthetics are maintained. Collectors can hug roof lines and cylinders can be installed wherever the house design dictates. Although vertical cylinders are preferred, as they offer improved efficiencies and savings, horizontal cylinders can be installed hidden within roof spaces or mounted on the roof with the collectors to minimise system installation costs.



No mains power available - We can offer thermosyphon systems that require no mains power; or if a pumped system is required, we can offer a 12-volt system which operates from a single photovoltaic (solar) panel.



What size system do I need?

Use the following table to size your solar system. However, the sizing shown here should be treated as preliminary and specific guidance sought from your accredited installer.

Size of Household	Cylinder size required	No. of collectors to be installed	Type of collectors to be installed
1 person	90 litres	1	2.3m ² Standard collector
2 persons	135 litres	1	2.3m ² High efficiency collector
2 persons	150 litres	1	2.8m ² High efficiency collector
2 persons	180 litres	1	2.95m ² High efficiency collector
3 persons	225 litres	2	2.3m ² High efficiency collector
4 persons	280 litres	2	2.3m ² High efficiency collector
4 persons	300 litres	2	2.8m ² High efficiency collector
5 persons	360 litres	2	2.95m ² High efficiency collector
6 persons	425 litres	3	2.3m ² High efficiency collector
7 persons	500 litres	3	2.95m ² High efficiency collector

The adjacent table is based upon;
1. The collectors facing north north west
2. The collectors pitched to between 30 to 40 degrees
3. Each 1m² of collector heating from 40 to 70 litres of water storage.

BEAT THE EVER INCREASING COST OF ELECTRICITY
The average increase over the past 5 years for a medium-sized household has been **27.25%**.
Consumer Magazine Dec 2005.
Make the change to Solar Water Heating today!

Customer Feedback

EcoSolar water heating, the obvious choice, but don't just take our word for it, see what our customers say about us, our products and our service:

"We have found Energy Conscious Design to be a pleasant supplier with excellent product knowledge and a good delivery service. We have installed many different solar panels over the years and we now find the Ecosolar product to be the best value for money and as efficient as any we have installed."
Gaven Armit, Kingfisher Plumbing, Tauranga
"Just to let you know I have successfully installed the solar hot water system you supplied, the system is working well and the new entertainment in our house is looking at the readings on the controller and seeing the free hot water accumulating. I was very impressed by the efficiency and professionalism of your company and your advice at the time of delivery made the installation very straightforward. I would not hesitate to recommend your company and products to anyone wishing to install a good value solar hot water system. Please feel free to pass on my comments to any prospective customers."
James Tayler, Helensville

"As far as dealing with Energy Conscious Design Limited, I found that their service and the quality of the Ecosolar products supplied for my solar energy hot water system to be excellent, so much so, I recommended them to a number of people."
John Heaton, Patamahoe, Auckland
"We have sourced solar energy equipment from Energy Conscious Design for a couple of years now. They are very knowledgeable and committed to expanding the use of solar energy. Their Ecosolar products are of high quality and fairly priced which allows the solar water heating systems we offer to be properly designed and cost effective."
Dave Johnson, Sunworks NZ Ltd, Ashhurst
"We are very happy with the friendly and efficient service that we have received from Energy Conscious Design Ltd. We are very pleased with the performance of their Ecosolar solar panels as they have proven to be very efficient and cost effective."
Allan Hodgkinson, Alternative Heating Ltd, Napier

Capture the sun today...



...with EcoSolar SOLAR SYSTEMS



THE cost effective solar water heating solution

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Your local Agent/Installer is:



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Why choose EcoSolar Water Heating?

- Latest industry leading high efficiency technology at an affordable price, offering improved savings to recoup your investment sooner.
- Proven, reliable, top quality European products offer peace of mind and ensure maximum savings for years to come.
- Stylish leading-edge designs enhance the aesthetics of your house.
- Tested to Australian and New Zealand Standards and accredited by the Solar Industries Association.
- Solutions for domestic hot water, swimming and spa pools, commercial, industrial and dairy shed applications.
- Stockists of all your solar heating needs, with prompt service guaranteed - from DIY kitsets and components to fully installed turn-key and hassle-free installations.
- Qualified and experienced Engineering Design service to ensure the most appropriate solution.

So whether its a retrofit to an existing hot water system or complete new installation - invest in the best!

EcoSolar leading the revolution in New Zealand solar.



EcoSolar Setting the standard in Solar System Control

Our industry-leading control systems ensure you get the most out of your investment whilst being fully informed of system operation and performance.

Solar Controller

Our automated and intelligent solar system controllers are supplied as standard with our systems and offer industry-leading advantages. A large clear LCD display continuously shows system operation and solar collector and cylinder temperatures. It's advanced technology provides fault diagnosis and is capable of monitoring, historically recording and data-logging the heat recovered by your solar collectors - watch your savings grow!



Multi Solar Controller

Our market-leading multi controller sets the standard in solar system control. They offer the advantages of our standard solar controllers whilst being able to simultaneously control up to three systems. This enables them to either control multiple solar systems or to control your solar hot water plus swimming pool heating, space heating and boiler. The multi controller's advanced features will automate tasks previously undertaken by the occupier including:



- Provide fully automated back up heat input. The controller will sense whether sufficient hot water has been supplied by the solar system during daylight hours and if not, at a preset time, will automatically turn on the electricity or gas to heat the water to the desired temperature.
- As an option the controllers can automatically turn on the backup heater to heat the hot water cylinder to 60°C once per week to minimise the risk of legionella.

These controllers fully and seamlessly integrate and automate solar heating to match any lifestyle whilst maximising the return on your investment.

“One Shot” Backup Electric or Gas Heating Control

Combine our simple “One Shot” backup heating controller with our standard solar controller to ensure the backup water heating is on only when you need it. This offers increased savings over other solar systems. Historically, when you have needed to access additional hot water by turning on the backup heating i.e. electric immersion heater, you did so by using the main electrical isolator. Far too often you will have forgotten to turn this back off again - until receiving a bill showing significant electricity consumption at the end of the month.

These controllers allow you to turn on the heating at the press of a button and they automatically turn the power off once the cylinder is up to temperature. You don't have to remember to turn it off. Great for maximising savings!



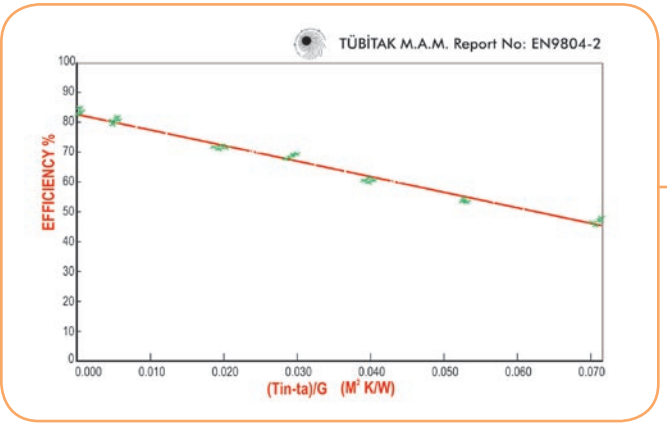
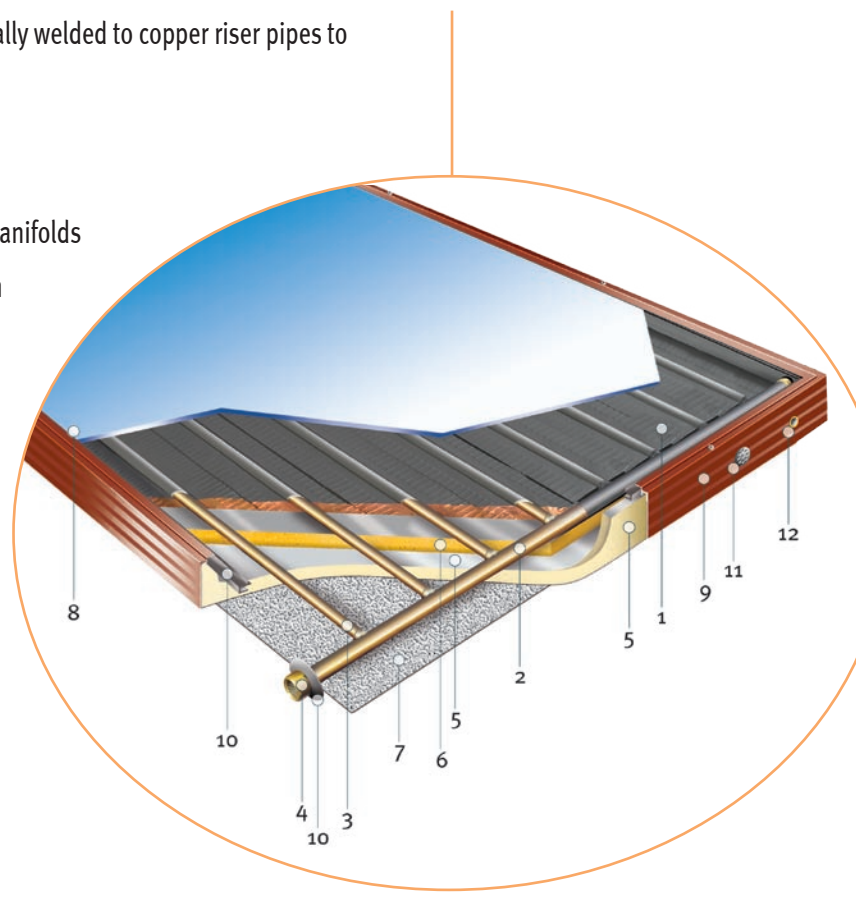
Latest High Efficiency Solar Collector Technology

Collector Design

Our collectors offer you industry-leading technology coupled with superior design to give you the peace of mind that comes from a product backed by 25 years' experience and the manufacture of over 200,000m² of collectors per year. So reliable that we back them with our 5 year guarantee!

Our collectors are suitable for low or mains pressure systems and offer the following features:

1. Selective coated-copper absorber sheet ultrasonically welded to copper riser pipes to optimise collector efficiency
2. Copper header pipes
3. Copper riser pipes
4. Brass outlets brazed to copper header pipes and manifolds
5. Direct-injected polyurethane insulation coated with aluminium foil
6. Aluminium foil-coated mineral wool insulation to protect the polyurethane insulation and to reduce heat loss from the collector
7. Embossed aluminium protective backsheet
8. Tempered low-iron security glass for increased collector performance
9. Powder coated extruded aluminium housing
10. UV resistant 100% EPDM rubber seals and gaskets
11. Ventilation holes
12. M8 threaded inserts for easy mounting on to roof, profile etc



Collector performance

Our collectors offer superior performance with proven reliability ensuring maximum savings for years to come and the greatest possible return on your investment. Compare our collector performance curve against our competition and see why so many people in the industry are choosing to install EcoSolar water heating systems for themselves and for their customers.