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.

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

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.

<table>
<thead>
<tr>
<th>Size of Household</th>
<th>Cylinder size required</th>
<th>Number of collectors to be installed</th>
<th>Type of collectors to be installed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 person</td>
<td>90 litres</td>
<td>1</td>
<td>Standard collector</td>
</tr>
<tr>
<td>2 persons</td>
<td>115 litres</td>
<td>1</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>3 persons</td>
<td>150 litres</td>
<td>1</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>4 persons</td>
<td>180 litres</td>
<td>1</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>5 persons</td>
<td>235 litres</td>
<td>2</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>6 persons</td>
<td>285 litres</td>
<td>2</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>7 persons</td>
<td>305 litres</td>
<td>2</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>8 persons</td>
<td>365 litres</td>
<td>2</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>9 persons</td>
<td>435 litres</td>
<td>3</td>
<td>High efficiency collector</td>
</tr>
<tr>
<td>10 persons</td>
<td>510 litres</td>
<td>3</td>
<td>High efficiency collector</td>
</tr>
</tbody>
</table>

The adjacent table is based upon;
1. A temperature rise of 20-25°C is achieved and maintains the system temperatures
2. The collectors are mounted on the roof facing North
3. The thermal lag time in the system is 24 hours
4. The system utilises a 14 litre instantaneous water heater
5. The solar system is connected to mains power
6. Maximum load on the system at any one time

No mains power available - We can offer a 12-volt system which operates from thermostyphon systems that require no mains power available. For further details on our mains powered systems please refer to our sales department.

THERMAL COLLECTORS
Size of Household Cylinder size Number of collectors to be installed Type of collectors to be installed
1 person 90 litres 1 Standard collector
2 persons 115 litres 1 High efficiency collector
3 persons 150 litres 1 High efficiency collector
4 persons 180 litres 1 High efficiency collector
5 persons 235 litres 2 High efficiency collector
6 persons 280 litres 2 High efficiency collector
7 persons 300 litres 2 High efficiency collector
8 persons 355 litres 3 High efficiency collector
9 persons 435 litres 3 High efficiency collector
10 persons 510 litres 3 High efficiency collector

"We have found Energy Conscious Design to be a pleasant supplier with excellent product knowledge and a good delivery service. We have installed many systems throughout New Zealand and I have found that the Ecosolar product to be the best value for money and so efficient as 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 very well, I am very impressed with the efficiency of the collectors and the water heating is excellent. I was very impressed with 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 use my comments to any effect you think appropriate.

James Taylor, Helensville

Customer Feedback

"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 hot water system to be excellent and much appreciated. I recommend them to a number of people.

John Heaton, Pakuranga, 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 retailers we offer to the properties designed and installed.

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 water heaters as they have proven to be reliable with little maintenance.

Allan Hodgkinson, Alternative Heating Ltd, Napier

...with EcoSolar Solar Systems...
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 hot water in one system. The 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.

“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!

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 a 5 year guarantee!

- Selective coated copper absorber sheet brazed ultrasonically welded to copper riser pipes to optimise collector efficiency
- Copper header pipes
- Copper riser pipes
- Brass outlet brazed to copper header pipes and manifolds
- Direct-injected polyurethane insulation coated with aluminium foil
- Aluminium foil-coated mineral wool insulation to protect the polyurethane insulation and reduce heat loss from the collector
- Embossed aluminium protective backsheet
- Tempered low-iron security glass for increased collector performance
- Powder coated extruded aluminium housing
- UV resistant screws (EPDM rubber washers and gaskets
- Ventilation holes
- M10 threaded inserts in Roger mounting to roof, etc.

Collector performance
Our collectors offer superior performance with proven reliability ensuring maximum savings for years to come. The greatest possible return on your investment. Our collectors are fully tested for low or mains pressure systems and offer the following features:

1. Latest high efficiency solar technology with proven reliability ensuring maximum savings for years to come
2. Direct-injected polyurethane insulation coated with aluminium foil
3. Direct-injected polyurethane insulation coated with aluminium foil
4. UV resistant screws (EPDM rubber washers and gaskets
5. Embossed aluminium protective backsheet
6. Tempered low-iron security glass for increased collector performance
7. Powder coated extruded aluminium housing
8. UV resistant screws (EPDM rubber washers and gaskets
9. Ventilation holes
10. M10 threaded inserts in Roger mounting to roof, etc.

www.ecosolar.co.nz
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