



Solar Water Heating Systems



Why choose ecogise?

ecogise not only offer a high quality, reliable solar water heating system made right here in New Zealand, we are **sustainable energy solutionists**. As energy solutionists we combine our passion for the environment with a vast array of practical alternative energy and electrical knowledge to advise, create and install an efficient energy system that will meet your requirements and budget.

- **10 year warranty**
- **30 years experience**
- **New Zealand made**
- **Innovative and reliable design**
- **Very low maintenance**
- **Aesthetically pleasing**
- **Standards approved**

Applications

Commercial

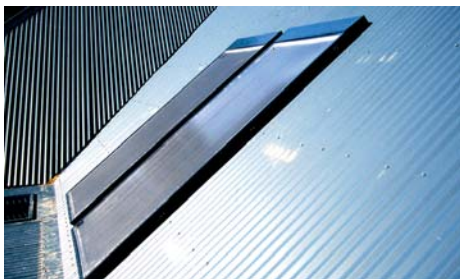
- Dairy farms
- High rise buildings
- Factories
- Hospitals
- Motels
- Restaurants

Domestic

- Grid connected
- Off grid

We can design and build solar water heating systems to meet most requirements. Often in commercial application the use of hot water is much higher and therefore solar water heating becomes even more cost effective than in a normal domestic situation.

Examples of completed systems



Solar water heating systems

Please contact ecogise for more information (details on back panel), or visit our website www.ecogise.co.nz

ecogise design and build

Split system

Water cylinders are located remotely from the solar collectors i.e. in a cylinder cupboard or in the roof. In most cases we will not mount a water cylinder on the roof due to decreased efficiency, loading and durability, as well as poor aesthetic quality.

Closed loop

In most cases the solar circuit is closed loop, which means it is separated from the potable water by a heat exchanger. This is to protect the system against damage from frosts, with heat transfer fluid (food grade glycol) being pumped through the solar circuit, able to withstand temperatures down to -25°C .

Flat plate

There are rumors that evacuator tube type systems are more efficient than flat plate systems. This is not true. Solar water heating is most effective when heating water up to 60°C and flat plate solar collectors are ideally suited for this. Flat plate solar collectors have been around for over 30 years and during this time significant improvements have been made to their design, offering a proven, reliable system.

Custom built

As ecogise systems are built right here in New Zealand we can custom build the solar collectors to suit almost any requirement. This may mean colour coding the collectors to a particular roof colour and building the solar collectors in a certain shape, size or curve. The system can also be custom built to meet the hot water requirements of the highest users.



ecogise solar water heating systems

Designed and manufactured in New Zealand for over 30 years, the ecogise solar water heating system offers proven quality, reliability and efficiency.

As the ecogise system is built to not only withstand, but thrive in the harshest weather conditions New Zealand has to offer, we confidently back each system with a 10 year warranty. All authorised ecogise solar water heating installers are trained to provide the best possible advice on a system to meet your needs, to ensure your system will not only meet but exceed your requirements.

How does it work?

The way the sun heats your water is best explained by comparing it with a glasshouse or perhaps the way a car left parked in the sun heats up.

The incoming sunshine rays are long rays which can penetrate through the glass or other materials such as clear plastics. After penetrating and striking any solid object behind the glass, the rays break up into short rays which can not travel back through the glass and so the heat is trapped inside.

ecogise solar panels are made of highly conductive material with copper waterways and a small circulation pump that circulates fluid from the water cylinder, through the solar panels where it is heated and then back to the water cylinder, where it is stored ready for use.

An electronic controller and temperature sensors control when the pump turns on to circulate the fluid through the solar panels. This is to achieve maximum efficiency and retain heat in colder weather.



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