



THE
alternative
ENERGY
COMPANY LTD

Solar Thermodynamic Hot Water



THE
SMARTEST WAY
TO HEAT WATER
www.taec.co.nz



**Trustworthy
Brand**



**Works all day
Everyday**



**SAVES YOU
UP TO 85%**



**All Seasons
All Conditions**



**Renewable
Energy**



**Domestic
& Commercial**

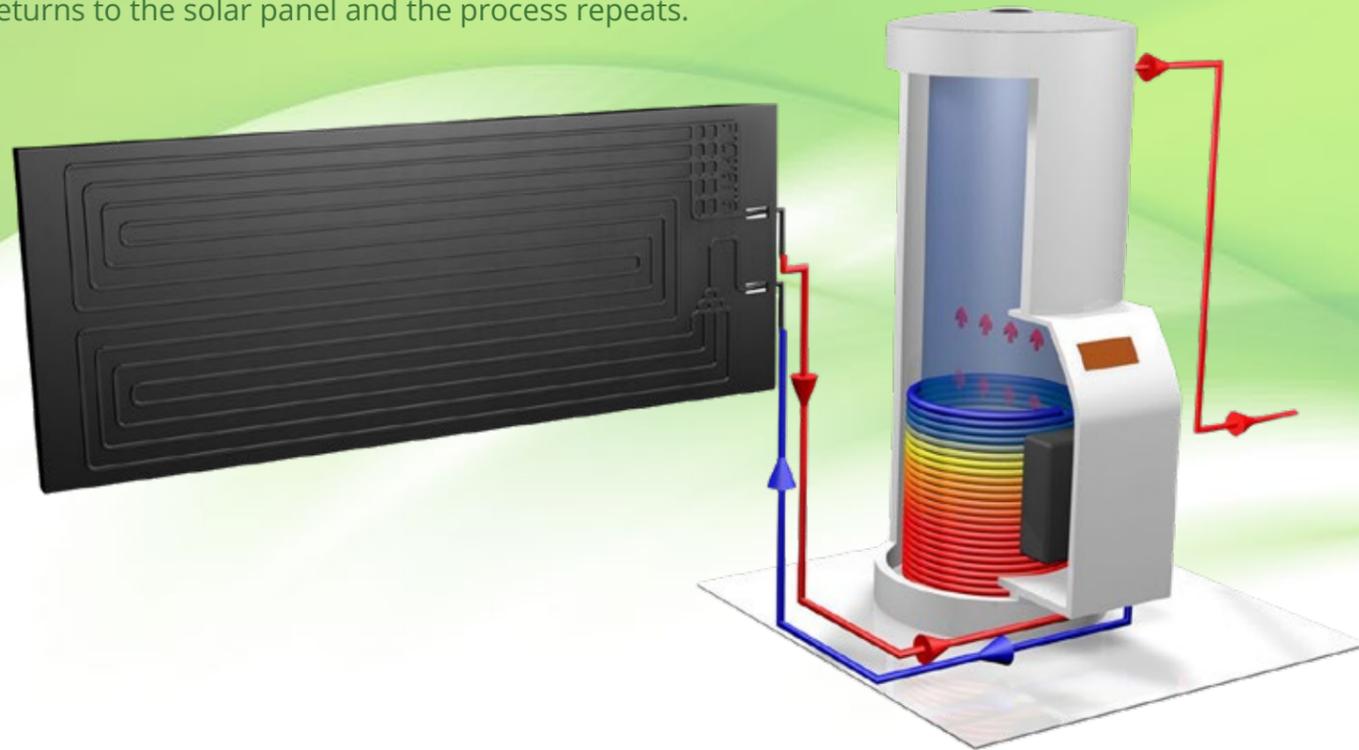
Energie Eco systems comply with

AS/NZS 2712
Building Code
G12



How it Works

An extremely cold refrigerant liquid passes through the lightweight aluminium panel gathering free heat from the air surrounding the panel and from the sun, rain and wind. This causes the liquid to boil and become a hot gas which is then compressed, dramatically increasing its temperature. The heat is then transferred to the water by a coil around the cylinder, causing the gas to re-condense to a fluid which returns to the solar panel and the process repeats.



Why the Solar Thermodynamic hot water system is SMARTER

- Supplies ALL your hot water 24/7 365 days per year, all weathers and seasons
- No maintenance, is a fit and forget system
- Installation and technical support throughout NZ
- An environmentally sustainable and responsible choice
- Very cheap running costs and 5 year payback period. Future proofs your home from rising electricity costs
- Compatible with PV so enables you to maximise free energy usage
- High quality engineering from a proven manufacturer. Energie economy and satisfaction is recognised worldwide
- Uses a lightweight, discreet solar panel which does not require a building consent
- Does not freeze or overheat, uses a refrigerant in the panel not water
- Maximum efficiency. COP between 3 and 5
- Intelligent controller allows you to choose various operation modes and other functions
- Quiet, similar noise level as a small fridge

Savings

In New Zealand hot water heating can be up to 45% of your electricity bill

Running Costs

- Lowest running costs of all water heating methods
- Estimated running cost of only \$20 per month for a family of 4 with an ECO 250L cylinder

Return on Investment

- Saves \$1000's per year on electricity
- R.O.I under 5 years
- Saves \$30,000+ over 20 years (expected system life is 25 years)



Commercial and Large Volume Hot Water



If your business or organisation uses large volumes of hot water, the Energie Solar Thermodynamic system can **dramatically reduce running costs.**

You can make massive savings in a very short payback period. The larger the volume, the quicker the payback.

We can also design an Energie system for **underfloor heating** and swimming pools.

We offer a free design service customised to your business hot water usage.

Call for a free system design and quote

Frequently Answered Questions

How reliable are the ENERGIE solar thermodynamic systems?

ENERGIE is the world's leader in thermodynamic systems, it has been manufacturing since 1981 and has systems installed in over 40 countries.

How many solar panels will I need?

Just one lightweight (8kg) panel measuring 200cm x 80cm will supply 300 litres of hot water, ample for a family of 4.

Will I have hot water when there is no sun?

YES. The system works 24/7 365 days per year, with or without sun, in the wind, rain or even snow.

Do the solar panels rust?

NO. The panel is made of anodised aluminium, so corrosion is not an issue.

Do the solar panels have to face north?

They will work anywhere they are exposed to the environment but will be most efficient in the sun.

Does the solar thermodynamic system require maintenance?

NO. It is fit and forget.

How long does it take to install?

Normally just one day.

How hot does the water get over?

Heats to 55 degrees Celsius so you don't get burnt and once a week to over 60 degrees Celsius to comply with NZ standards for anti-Legionella.

What refrigerant is used?

R134a is a commonly used refrigerant liquid which is non-ozone depleting.

What is the expected life-span of a system?

There are working systems over 25 years old.

How far can the panel be from the cylinder?

Maximum distance is 15 meters.



Please
contact
us



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Call for a free quote