

SOLARstore

Heat your water using the power of the sun.

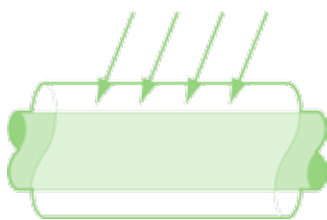
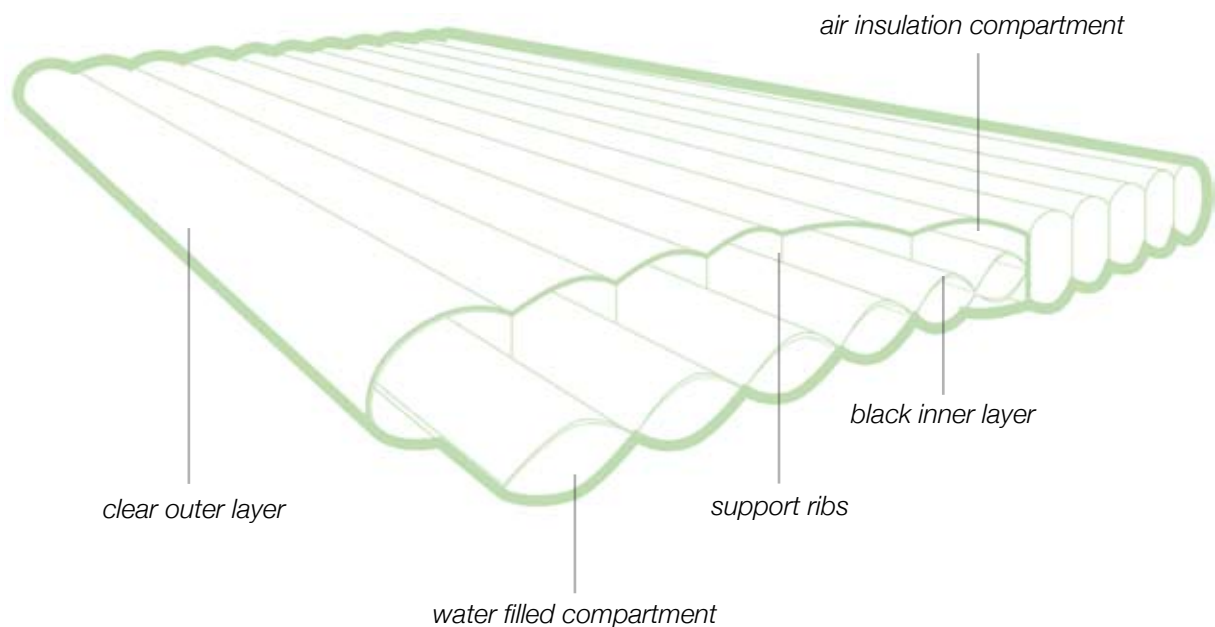


what is solarstore?

Solarstore is a cost-effective, inflatable solar collector, used to heat water using the free power of the sun.

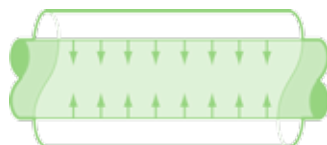
Constructed of a heavy duty polymer, the patent pending Solarstore is both robust and flexible, and can be used in a variety of different settings. When deflated, it is small enough to pack into a rucksack, yet can inflate to nearly 2 square meters for maximum solar energy absorption.

Used primarily for domestic outdoor applications, solarstore can provide up to 3 full tanks per day at temperatures nearing 80 degrees celcius. This is the equivalent of enough water to wash a car 18 times over, at a temperature hotter than most domestic hot water systems. (Skin contact with water at over 40 degrees celcius not recommended. Can cause scalding).



1

The sun's rays pass through the clear layer to the water-filled black layer.



2

The black layer heats up, and consequently heats the water inside.



3

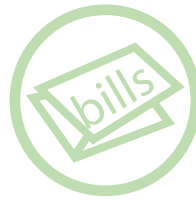
The air between layers acts as insulation, helping keep the heat in.

what are the benefits of solarstore?



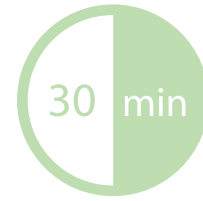
Cost Effective

SolarStore pays for its-self in just 6 months! Unlike other systems which can take 30 years pay back time.



Saves Money

As energy prices continue to rise, you can rest assured that some of your water is being heated for free.



Easy to Use

The system takes only 30 mins to set up, and in as little as 2 hours you could have a full tank of free hot water!



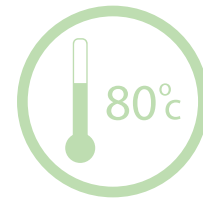
Efficient

In clear summer weather, SolarStore will provide up to 3 full tanks of water a day, at a sufficiently high temperature.



Versatile

Solarstore can be used in a variety of situations inc' Camping, Caravanning, Home & Garden, Remote areas, etc.



Powerful

The water can reach over 70 degrees celcius, which is hotter than some domestic hot water systems!



High Volume

Solarstore can provide over 30 litres of water on one fill, which is enough to do the washing-up, 3 times over!



Eco-Friendly

Solarstore saves nearly 0.2 Tonnes of Carbon dioxide per year in green-house gas emissions each year!



Recyclable

Save money, and save the Planet! The SolarStore collector panel is made from 100% recyclable materials.

how efficient is solarstore?

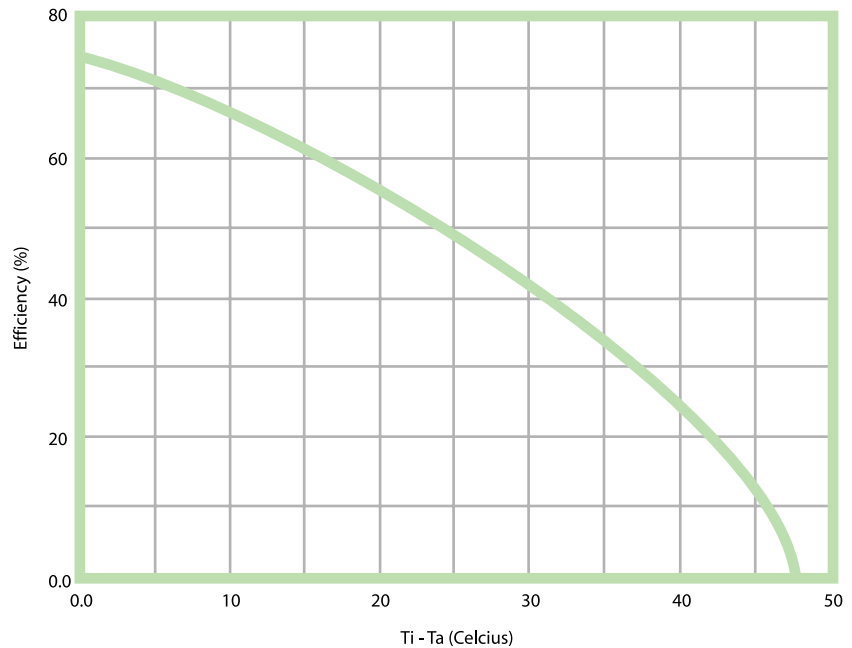
When the water inside a solar collector is the same temperature as the ambient air outside, there are minimal losses to the environment. This is demonstrated as the starting efficiency, or where the $T_i - T_a$ graph hits the Y-axis. As the water heats up, it loses heat through conduction, convection, and radiation, causing the slope we see below.

Efficient

Solarstore leaves behind many of the disadvantages of current solar water heaters, without sacrificing much efficiency.

This graph shows a starting efficiency of 74% comparable to other leading products, but at a fraction of the price.

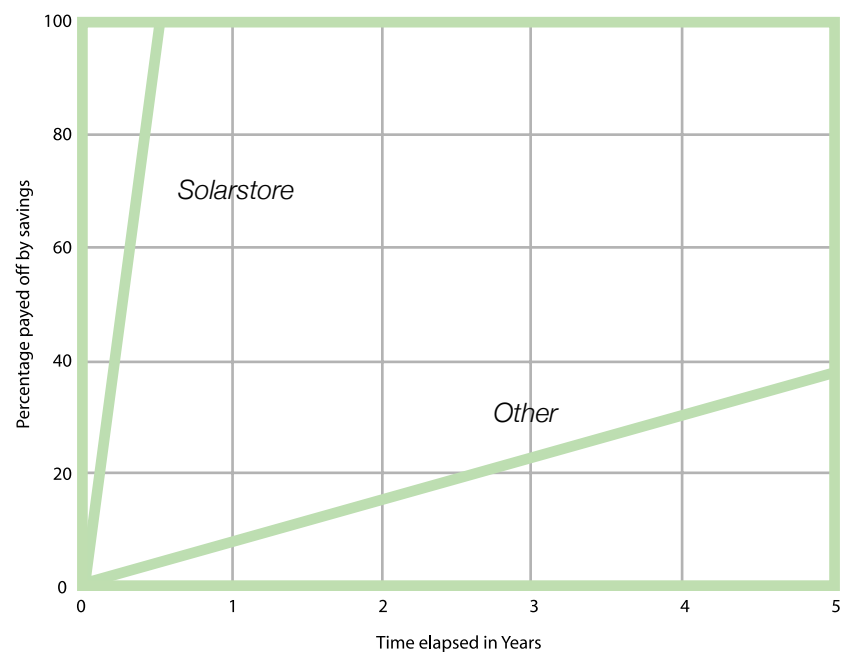
$(T_i - T_a)$ = difference between the water temperature, and the temperature of the air outside.



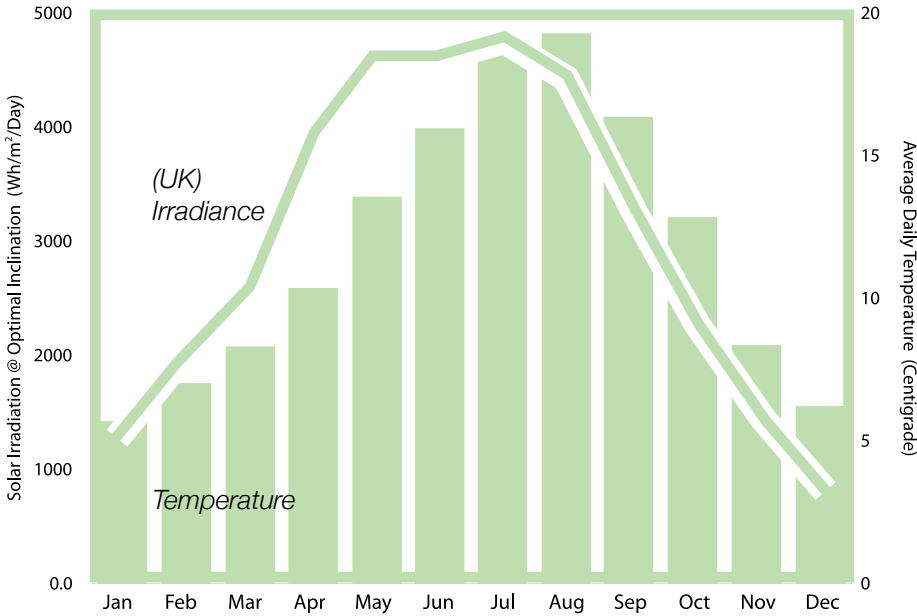
Pays for itself

The savings in energy bills will surpass the product cost much faster than most other solar water heating systems available today.

Solarstore will pay for its self in just 6 months with regular use, whereas your average solar water heater takes over 20 years to pay off! By the time solarstore has paid for its self 10 times over, most others have barely paid off 40% of their purchase cost.



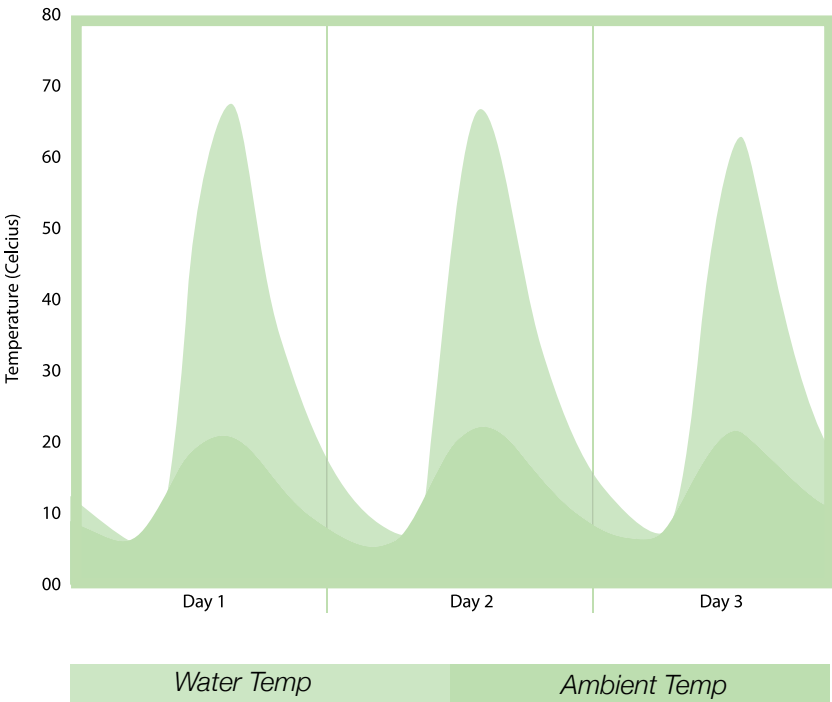
Due to its air insulation layer, solarstore will produce hot water as long as there is enough sunshine to heat it up. The amount of sunshine, or, 'irradiance' can be high or low regardless of outside temperature, and it is this energy which solarstore utilises to give you free hot water.



Solar energy is in abundance (UK)

During the summer months, solarstore can give up to 3 full tanks of hot water per day. This is reduced as the irradiance drops, but can still function in the winter as long as the sun is shining.

Like all other solar systems, cloud cover will affect the performance of Solarstore, as solar radiation is at its lowest.



Solarstore really works

As an example of Solarstore's effectiveness, this graph shows the temperature change over a 3 day period in March (UK)

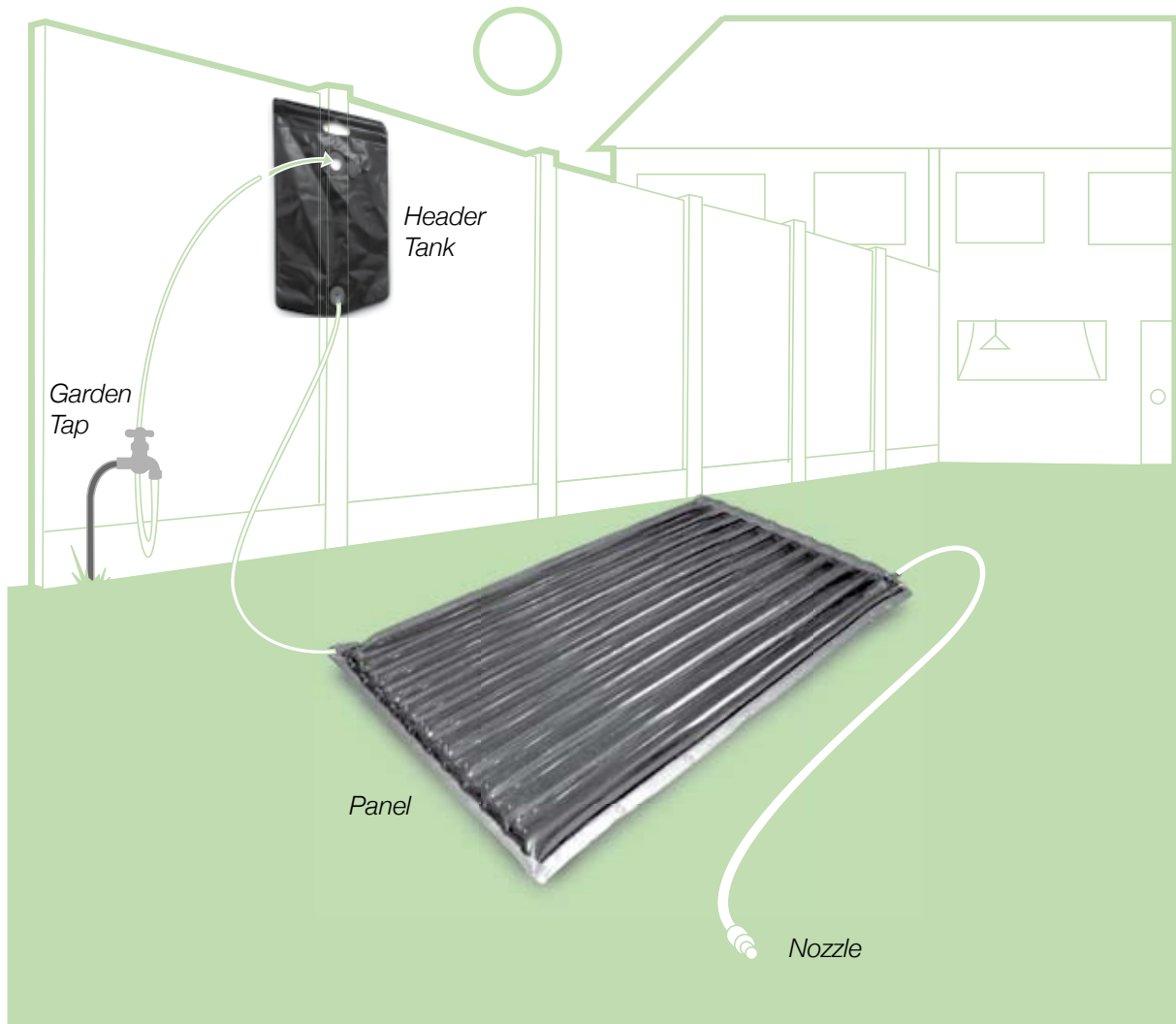
Even with an average temperature as low as 14 celcius, the water inside quickly reaches up to 70°C.

In the summer months the SoloarStore reaches much higher temperatures, in much less time, allowing more full tanks per day

Results available on request

How do I use solarstore?

For detailed documentation on how to use Solarstore, please refer to the operating instructions leaflet supplied with the product. Please read all warnings and recommendations before proceeding.



- Pump up panel*
- Fill header tank*
- Header tank fills panel*
- Panel heats up*
- Open valve to access hot water*
- Header tank automatically re-fills panel*
- Water re-heats*
- Use when required*

Where do I use solarstore?

Solar Store is the ideal product for many situations and applications including remote areas with unreliable electricity supplies, camping, caravans, yachts, heating swimming pools, washing the dishes, washing the car...



Washing Up

Solarstore contains enough water to do the washing up three times.



Wash the Car

With the water temperature reaching nearly 80°C even the toughest marks can be removed.



Heated Pools

Solar Store is more energy efficient than almost all conventional electric heaters.



Remote Areas

Other water heaters require a reliable source of electricity. With Solar Store all you need is some sun.



Caravans

Solarstore is ideal for caravans and camping, it won't take up valuable space while traveling due to its compact deflated size and it will heat water quickly once you arrive.



Yachts

Simply hang the header tank on the mast and place the panel on the deck. Then run the hose through a hatch to the sink or to the stern to shower on deck.

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