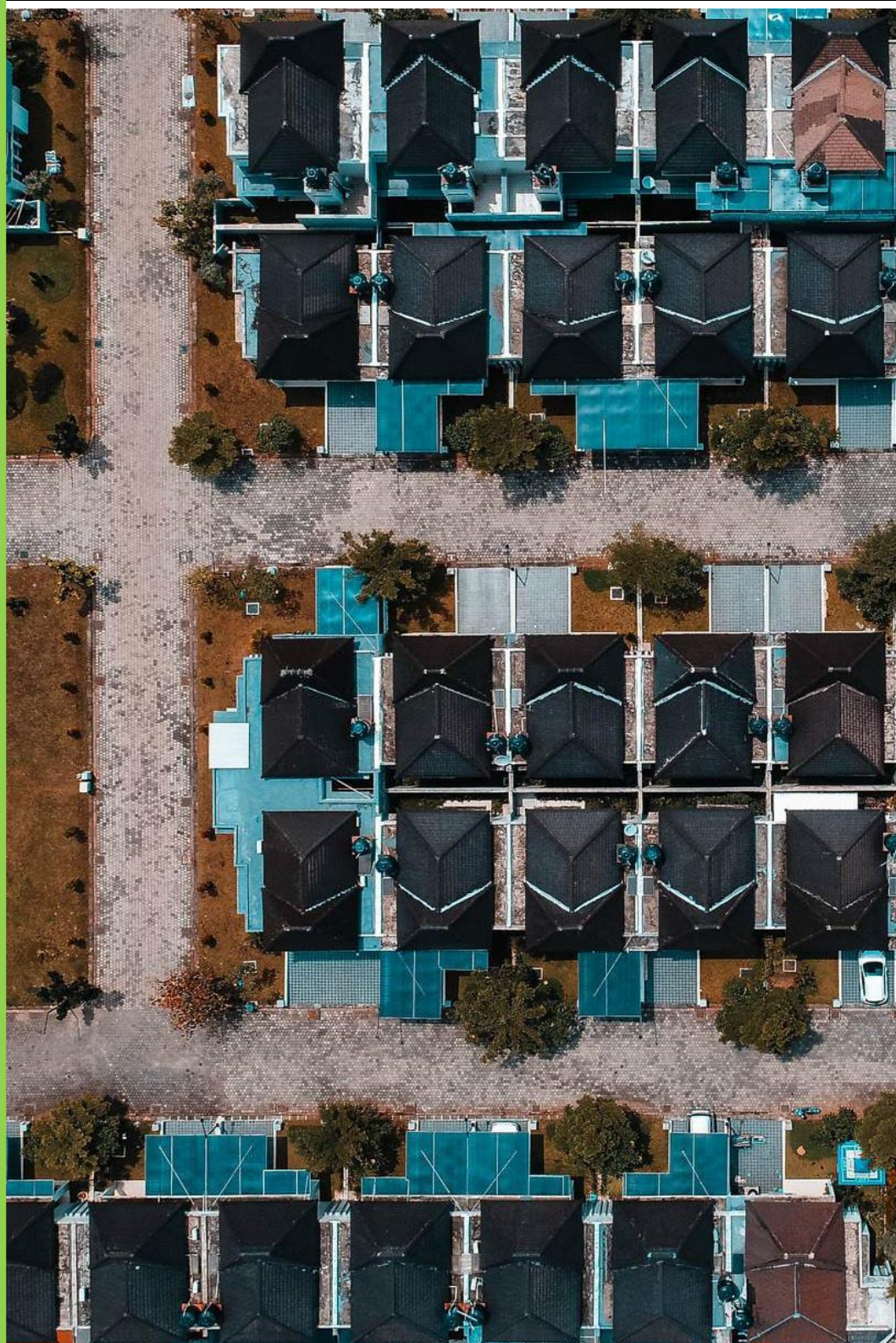




**NORTH EAST**  
HEATING COOLING  
SOLAR

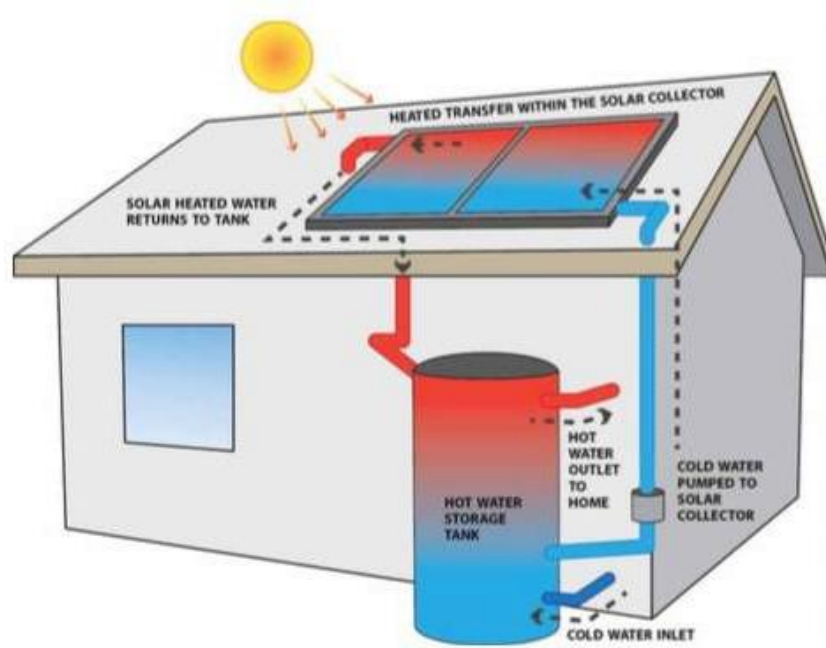
# N O R T H E A S T



**RESIDENTIAL SOLAR**

Solar HotWater

# Solar hot water

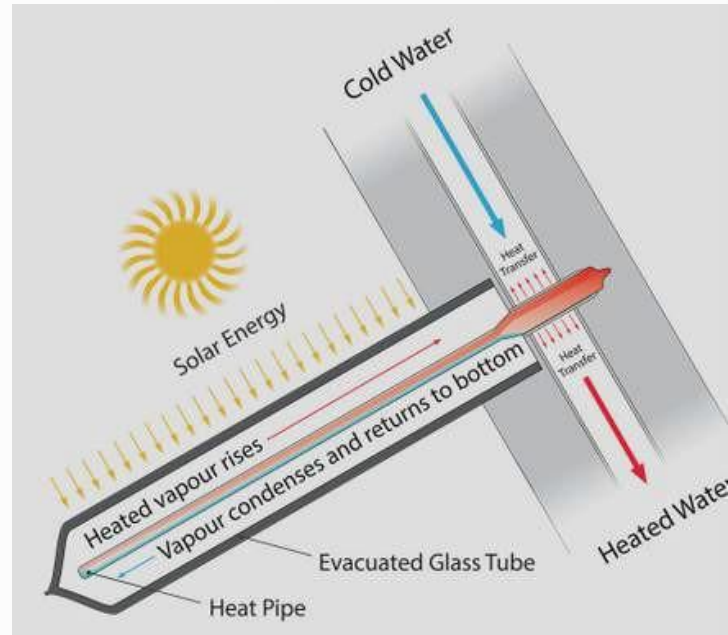


"it is beautifully simple in its design"

Whilst solar hot water may be confusing to some people, it is beautifully simple in its design. There are two basic types of solar hot water systems - flat plate and evacuated tube collectors. Both types of solar hot water come with gas or electric boosted storage tanks for those days without much sunlight.

Let's take you through the differences...

**Flat plate collectors** work by having copper pipes running through a flat glass covered collector which is connected to a water storage tank down on ground level and is fed by your mains water. Cold water is pumped from the tank and into the base of the flat plate collector. The sun heats up that water which forces it to rise to the top of the collector plate through what is called the thermo-siphon principle. From there, the heated water flows back into the top of your water tank and then into your home.



**Evacuated Tube Collectors** collect the heat through several annealed glass tubes that each have their own heat-absorbing plate inside. There are different designs of evacuated tube collectors, but the basic idea is the same. Each tube traps sunlight inside the glass tube, which is used to heat either the water directly, or a special heat transfer fluid that transfers the heat to the water.

The name comes from the fact that a vacuum (which is an excellent insulator) is created during manufacturing between the outer and inner glass tubes, this makes for a very efficient solar heater. And the fact that the tubes are round, not flat, means that they can efficiently collect heat no matter where in the sky the sun is. In contrast, a flat plate collector is at its most efficient only when the sun is directly above the panel.





# WHY DO YOU NEED SOLAR HOT WATER?

Your typical hot water storage tank can be expensive to run which costs you a lot of money but is a big generator of greenhouse gas emissions. Solar hot water can provide up to approximately 80% of your hot water needs powered by the most wonderful resource we have... the sun.

Contact [North East Solar](#) now to learn how we can help you with your hot water needs.

By using the sun to heat up your home's hot water service you can decrease your energy bill and possible increase the value of your home if you ever wish to sell.

Decrease your energy bill and possible increase the value of your home, if you ever wish to sell

**Solar hot water can provide up to approximately 80% of your hot water needs powered by the most wonderful resource we have... the sun**

“

**No surprises.  
Solar done the right way.**

”

A new approach giving you back control of your energy bills and lets you focus on the important things in life. You!



**NORTH EAST HEATING, COOLING AND SOLAR**

23A Mint Street  
Wodonga VIC 3690  
+61 2 6056 0671  
[info@northeastheatcool.com.au](mailto:info@northeastheatcool.com.au)

**[northeastheatcool.com.au](http://northeastheatcool.com.au)**