



How to Install Hot Water Solar Panels on Roof

The most advanced hot water heating technology available from a company committed to a low-carbon future. [Envirosun Solar Hot Water](#) **System Prices Gold Coast** has a simple and effective manufacturing and purchasing philosophy: we only utilize the highest quality hot water heating components to build our fantastic selection of hot water systems. Our **hot water systems** are built in Australia with tanks, collectors, and controls from some of the world's largest and most technologically advanced manufacturers. These businesses are located in Holland, Italy, Australia, and, in certain cases, China.

PLANNING A SOLAR HOT WATER SYSTEM

There are a number of system types and factors to consider when planning a solar hot water system.

To split or not?

Close-coupled systems

For close-coupled (non-split) systems, the circulation of the water through the panels and tank occurs naturally as the heated water rises by a process called thermosiphon.

Split systems

Split systems use a pump to circulate water from a ground-mounted tank through the roof-mounted panels.

Collector types

There are two common types of solar hot water collector panels: flat-plate and evacuated-tube. Which type of collector you use depends on personal preference and your climate. Evacuated tubes tend to work better in the cooler months in colder climates, but in warmer climates, either type of collector will perform well.

Boosting: gas or electric

Virtually all solar hot water systems on the market incorporate some form of boosting. Electric elements are the most common boosting option. They fit in well with cheaper night rate tariffs and are usually cheaper than gas boosters.



Frost protection

The system should be fitted with a freeze protection system if frosts are a

possibility in your area. Water expands as it turns into ice and if there is no ability to absorb this expansion or prevent it happening, then the result will be ruptured pipes in the collectors. Repairing collectors can be difficult and replacement is expensive.

Temperature control

Solar hot water systems are effectively connected to an uncontrolled heat source (the sun) and so the temperature in the tank may become much higher than in a regular non-solar water heater.



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