

PRODUCE **ELECTRIC HOT WATER** FROM YOUR SOLAR

The advertisement features a central image with a dark blue background overlaid with a white grid pattern. On the left, a silver showerhead is shown with water spraying downwards. On the right, a white rectangular SunMate electric hot water controller is displayed, featuring a small digital display and several control buttons. The SunMate logo is visible on the front of the device. The overall composition is framed by light blue curved borders at the top and bottom.

# SunMate

Divert Excess PV to your Electric Hot Water

[somaenergy.com.au](http://somaenergy.com.au)





**NO NEED TO CHANGE YOUR EXISTING ELECTRIC HOT WATER UNIT**

**EASY TO INSTALL**

**BOOST/TIMER FUNCTION**

**ACCURATE POWER MEASUREMENT**

**PRECISE INTELLIGENT POWER CONTROL**

If you own a solar system or wind turbine it is probable that 50% or more of the electricity generated will be exported - given away - to the electricity grid.

The SunMate is an innovative renewable energy management product that uses the surplus power generated by your solar system to produce hot water. Every unit of energy used to heat the hot water in this way reduces imported energy by the same amount, resulting in significant savings in imported energy costs.

The SunMate will work with any solar system and uses a standard electric hot system to produce free hot water. The advanced SunMate controller ensures maximum usage of solar that would have otherwise been exported. The system is simple to install and will not affect your feed-in tariff payments.

The SunMate system works by accurately monitoring the exported power and diverts power into the hot water system. This keeps the exported power to as near to zero as possible, ensuring that no additional grid power is needed to heat your hot water. Priority is always given to the energy demands of the household appliances and only surplus energy that would have otherwise been exported is sent to the electric hot water system.





# SunMate 2.0

## What's Different?

**WIRELESS READY**

**2 OUTPUTS EACH  
CONFIGURABLE FOR VARIABLE  
OR THRESHOLD POWER MODE**

**VARIABLE POWER MODE FOR  
WATER HEATING**

**THRESHOLD MODE CONTROL  
FOR APPLIANCE CONTROL**

**TEMPERATURE SENSOR OR  
THERMOSTAT OPERATION**

**OUTPUT POWER EXPANDABLE  
TO 12KW**

**ALSO AVAILABLE  
IN 3 PHASE!**

## Your Questions Answered

### Is SunMate easy to install?

Yes! SunMate can be installed by solar installers or any qualified electrician.

### What energy savings can I expect?

This will depend on the size of your solar system and the amount of hot water you use. For a 4 person family with a 4KW solar system you can expect savings of nearly \$400 per year.

### Will I still get my export tariff payments?

Yes. Once your water is heated, excess remaining power will be exported to the Grid. You will receive your current FIT export payment. This means you can use all your generated energy and still receive all the export payments!

### Do I need an electric hot water tank or can I use my gas hot water system?

You do need to use an **electric** hot water system which uses a hot water storage tank. SunMate stores the excess electricity energy generated as hot water.

### If no excess energy is generated do I still get hot water?

Yes, SunMate works in conjunction with your normal hot water system. On days when excess power is not available from the solar system your water is heated in the normal way.

### Can I see how much energy I have saved?

Yes, SunMate records and displays how much energy has been saved and which would have otherwise been exported.

### Can I still use my Off-Peak water heating?

Yes, SunMate has a built-in timer which allows 3 different on/off periods to be programmed for each 24 hours so you can still take full advantage of your off-peak supply.

### Does SunMate have a second output?

Yes, SunMate has two independent variable power outputs so that a second water tank can be heated or power can be diverted to a second heater, e.g. a storage heater if the first water tank becomes fully heated. SunMate can even be programmed to equally share any available surplus solar or wind power between the two outputs.

### Can SunMate display the hot water temperature?

Yes, an optional temperature sensor can be fitted to SunMate to display and control the hot water temperature.

### What is the SunMate warranty?

All SunMate systems are supplied with a 5 year warranty.

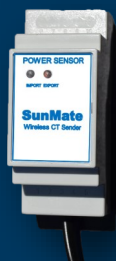
## Specifications

Operating Voltage	216—253 VAC
Heater Power	100W—3600W
Optimizing Power Range	50W—3600W
Optimizing Power Adjustment Period	Every 2 seconds
Variable Power Outputs	2 Outputs, both fully variable up to 3600W
Timer Functions	7-day or 5/2 day, 3 on/off settings per day
Boost Functions	1 to 4 Hours
Hot Water Temperature Display & Control	Yes, with optional temperature sensor fitted
Display	4 line x 20 characters back lit LCD
Mounting	Wall mount, bottom or rear cable entry
Dimensions	198h x 132w x 68d
Power Sensor Unit	CT-wired (optional wireless)
Current Sensor Rating	80A
Mounting	Non-invasive clip-on, 16mm max cable diameter



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# SunMate Accessories



### SunMate Wireless CT Sender Unit

The SunMate wireless CT Sender Unit allows for easy and cables monitoring of the Import / Export power and the information is sent to the SunMate controller that can be located away from the CT. Max range 100 metres (standard test in property 50 Metres).



### SunMate Temperature Sensor with 3 metres cable

Using the optional tank temperature sensor has a number of advantages over using the normal electric water element thermostat: Tank temperature display The home display screen will show a continuous reading of the current hot water temperature.



### SunMate Off-Peak Switching Relay

20 Amp 1NO/1NC 240VAC Off Peak Change Over Contactor Application

These contactors are electromagnetically controlled switches used to control the off peak switching of your hot water system or other off peak loads for use with the SunMate.