



Take Control of Your Solar Energy



CATCH is a device that utilises your existing solar installation to heat your hot water.

- Taking control of your solar energy**
 CATCH will divert the solar energy that is excess to your home and use it to heat your hot water. Forget about low export power tariffs.
- Save hundreds of dollars per year!**
 There are significant savings to be made by making better use of your solar electricity.
- Intuitive programming to improve efficiency**
 If there is not enough excess solar generation, CATCH will use grid power after 11 pm to top up your hot water.

TECHNICAL DATA

Max Hot Water Size	4.8kW
Max Load Current	20A
AC Input Voltage	230VAC
AC Frequency	50Hz
Weight	<1kg
Dimensions HxWxL (cm)	10x11x5
Warranty	5yrs

Product is compliant with IEC60950

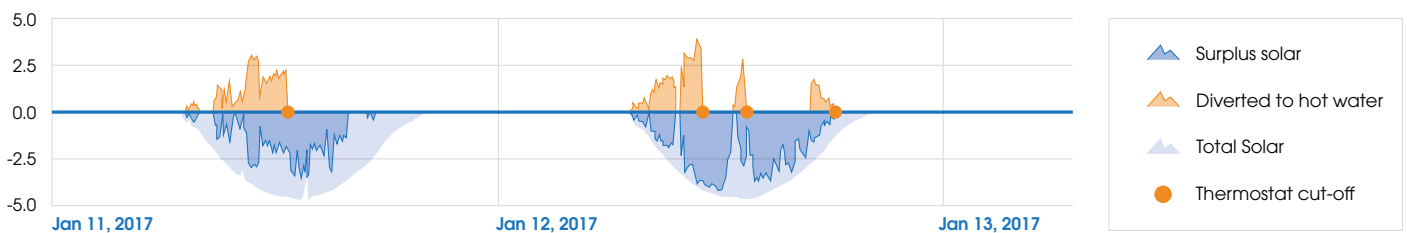
How does it work?

CATCH is simply a diverter of solar power that would otherwise be exported to the grid.

- CATCH is installed in the meter box or beside the switchboard.
- CATCH monitors power coming and going from your premises; when the diverter senses power leaving it redirects that power to your hot water cylinder.
- The CATCH Control Pad gives the owner greater control of their hot water heating by boosting with grid power at night when days are shorter in winter or allowing instant boosting with the HEAT NOW button.
- The Control Pad can be adjusted to heat water immediately (from grid electricity), to never using the mains at all. Great if you are going on holiday!
- CATCH will automatically adjust its internal algorithm to make the best use of your solar. It learns every day.

For those that have large hot water use (especially in the evening) an external timer override can be installed which allows user programmed boost periods at any time. This is helpful in winter.

3 Day Diversion Overview





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FREQUENTLY ASKED QUESTIONS

Will my existing hot water tank work with CATCH?

Yes. CATCH will work with your existing hot water element and thermostat. All that is missing is CATCH.

Will CATCH work with a heat pump?

No. CATCH modifies the grid waveform to regulate power, as such it only works on resistive element hot water systems.

Is my solar array suitable as it is?

Yes! CATCH measures excess solar generation at your main switchboard independently of your solar array.

Will CATCH work without an internet connection?

Yes. CATCH is specifically designed to work without any internet connection.

Who installs CATCH?

CATCH must be installed by a qualified electrician.

Does CATCH work on 3-phase solar?

CATCH is installed on the phase with your hot water and monitors excess solar on that phase only. Solar generation on other phases is consumed and exported as normal.

Is my solar array big enough?

CATCH works best with larger solar arrays. The table below shows approximately how much hot water will be heated from your solar.

Solar Array Size	Amount Heated*
Up to 2kW	75%
2 - 3 kW	75 - 85%
4+ kW	85 - 95%

*The figures above are estimates only. There are many factors that may effect the amount of water heated

I use a lot of hot water. Is CATCH going to work for me?

CATCH will work very well in the summer and will reduce your exported power significantly, however, you may need controllable grid boost periods in the winter months (as well as the 11 pm night boost). For these cases an inexpensive timer override should be installed alongside CATCH.

How does CATCH's smart algorithm work with the seasons?

The default summer setting diverts excess solar generation to the hot water cylinder. If the water has not reached thermostat cutoff by the end of the day it will be topped up by grid power after 11 pm when night power may be cheaper. In winter you can set a 2.5 or 5 hour night boost. If the water is hot by midday it reduces the night boost period by 12.5% each day. If the water is still not hot by 11 pm it will do a full night boost until thermostat cutoff. See more about this at: https://mcnae.co.nz/s/Catch_Power_Green_user_guide_with_algorithm.pdf

What if I have guests and need hotter water?

Pressing the HEAT NOW button gives instant heat from grid power. After heating CATCH reverts to the 5-hour night boost setting so you won't run out of hot water.

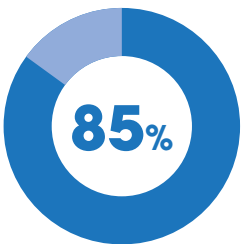
Can I see how much diversion is occurring?

Yes, CATCH has a LED indicator that flashes faster as more excess solar generation is diverted into the hot water cylinder. Once thermostat cutoff is reached CATCH will be in idle mode waiting for the temperature to drop. When it does, it will start diverting again.

I have a battery in my system. Can CATCH work with that?

Yes! CATCH can be wired so that the battery is charged before the hot water heats. Grid power top ups won't discharge the battery. This makes best use of your excess solar energy and battery to power the loads in your house.

Solar, together with CATCH, can reduce your reliance on mains supplied power by an average of



Your local CATCH Installer Partner:

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