

MPPTt is a patented technology which delivers high power in solar thermal systems. The technology is only available in Surface Power solar systems and can deliver up to 7 times the kWhr production of standard solar systems per sqm of collector space installed.



SMART GRID Online Services

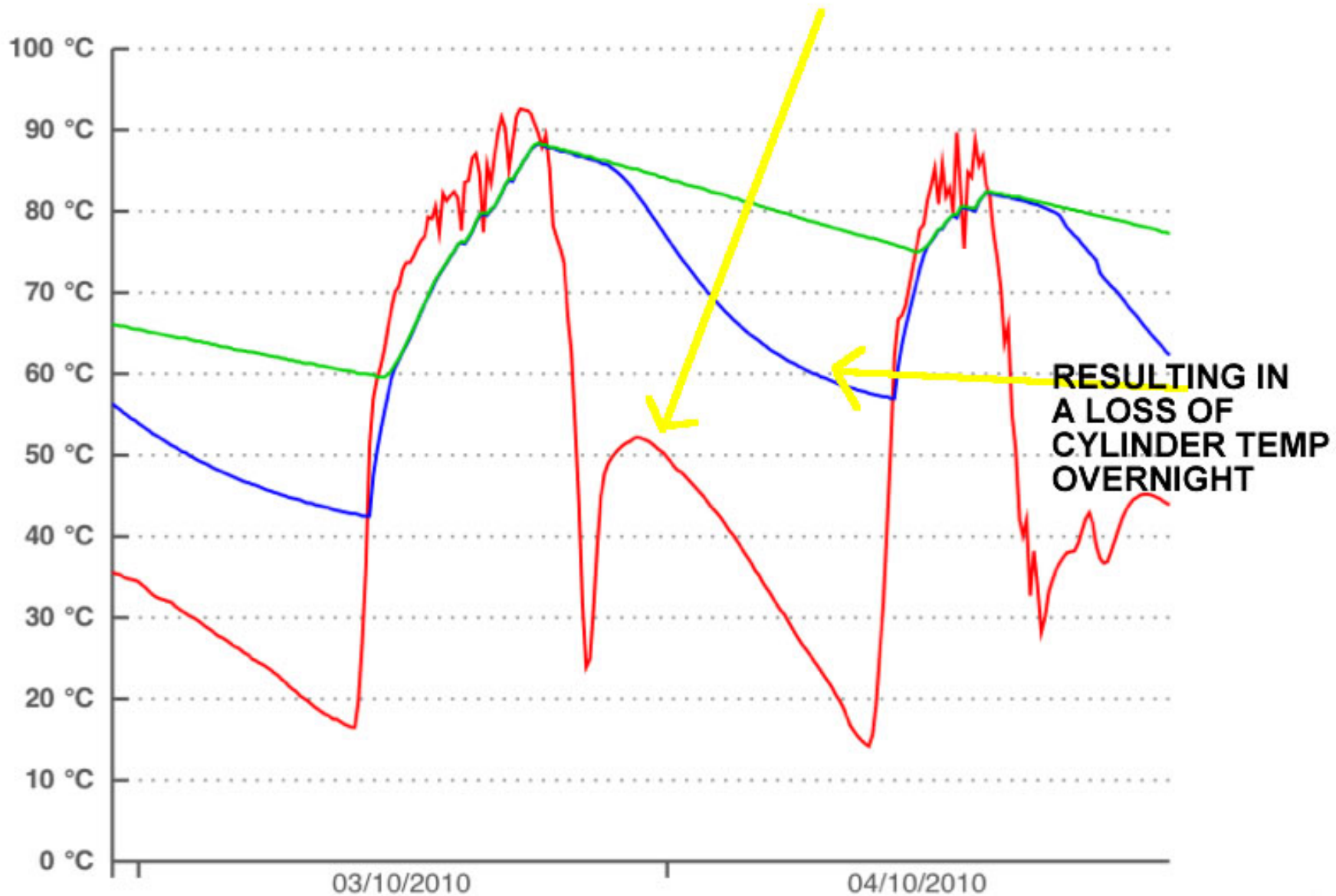
(Benefits of remote services centre)

The situation – 1 Ireland

- ❑ An error was detected on a system, THE LOCATION OF THE SYSTEM IS IRELAND
- ❑ It gets reported and diagnosed
- ❑ The next slide shows the screenshots PROFILE of the system taken from the SMART grid control services centre
- ❑ It shows a high temperature in the collectors AT NIGHT TIME and a loss of heat from the cylinder
- ❑ *System location is irrelevant, the Surface Power systems services servers are based in Florida*

Temperature

**ERROR DETECTED AT MIDNIGHT
COLLECTOR TEMPERATURE AT 50C**



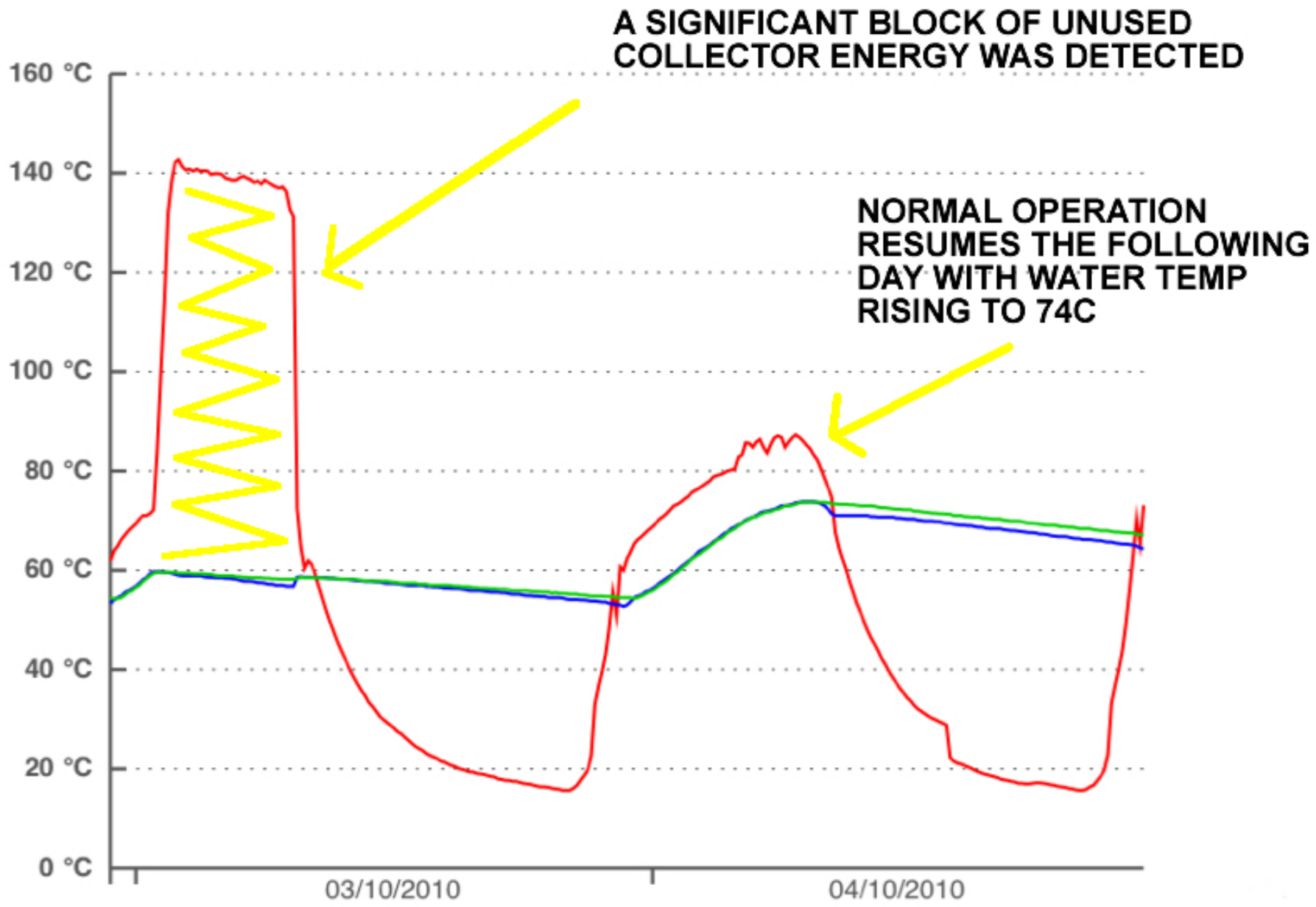
The Result

- ❑ The Surface Power system is performing well above any competitors system at the time of year, (OCT 2010) is only 4.75 sqm in size, so the problem would probably never be detected WITHOUT DEDICATED ONLINE SERVICES.
- ❑ The centre notifies the installer.
- ❑ A faulty non-return valve is detected.
- ❑ The customer will now generate even more energy (approx 20% more) and the system is optimised once again

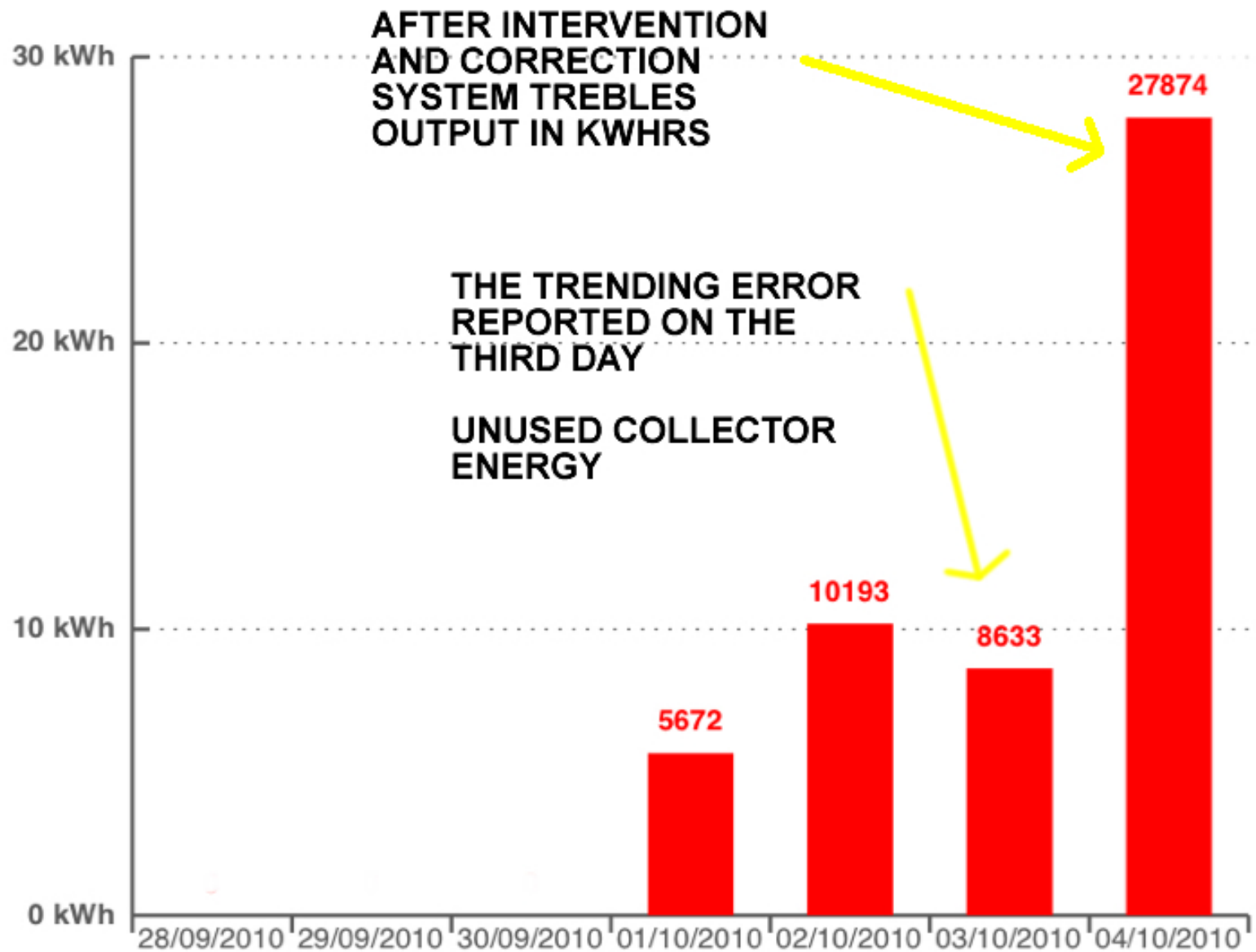
The situation – 2 New Zealand

- ❑ An error was detected on a system, THE LOCATION OF THE SYSTEM IS NEW ZEALAND
- ❑ It gets reported and diagnosed
- ❑ The next slide shows the PROFILE screenshot of the system taken from the SMART grid control SERVICES centre
- ❑ It shows a high temperature “stall” in the collectors resulting in a SERIOUS loss of production (kWhrs).
- ❑ *System location is irrelevant, the Surface Power systems services servers are based in Florida*

Temperature



New Zealand: Heat



The Result

- ❑ The Surface Power system is performing well above any competitors system at the time of year, (OCT 2010) is only 1.9 sqm in size, so the problem would probably never be detected WITHOUT DEDICATED ONLINES SERVICES
- ❑ The centre detects a reset of the UPPER TANK temp to 60C. (This should be 85C on a system with 1.9 sqm)
- ❑ The centre resets the correct parameters
- ❑ The CUSTOMER WAS NOT informed of the issue OR the fix
- ❑ The customer will now generate even more energy (approx 35% more) and the system is optimised once again. The following day delivers 3 times the kWhrs.

Proof NOT Promises

- Surface Power are the ONLY solar technology company who deliver HIGH PERFORMANCE solar hot water and can LOOK after your system whilst you own it**
- For RHI payments, we can maximise your metering payments so you get the biggest return on TARIFF PAYMENTS**
- For non tariff installations, our SERVICES options will minimise your GAS and OIL bills**



Data gathered from our SMART grid command centre and published with kind permission of the householder

To order

- ❑ There is no CHARGE for online services and support currently. (and no plans for charges for domestic customers)
- ❑ Just tell your installer you want the ONLINE SMART GRID services option for your Surface Power solar hot water systems.
- ❑ ONLINE SMART GRID is mandatory for metered OR commercial systems as MPPTt operates remotely via our servers in Florida
- ❑ Any questions, please email support@surfacepower.com