

SPLASH

m o n i t o r i n g

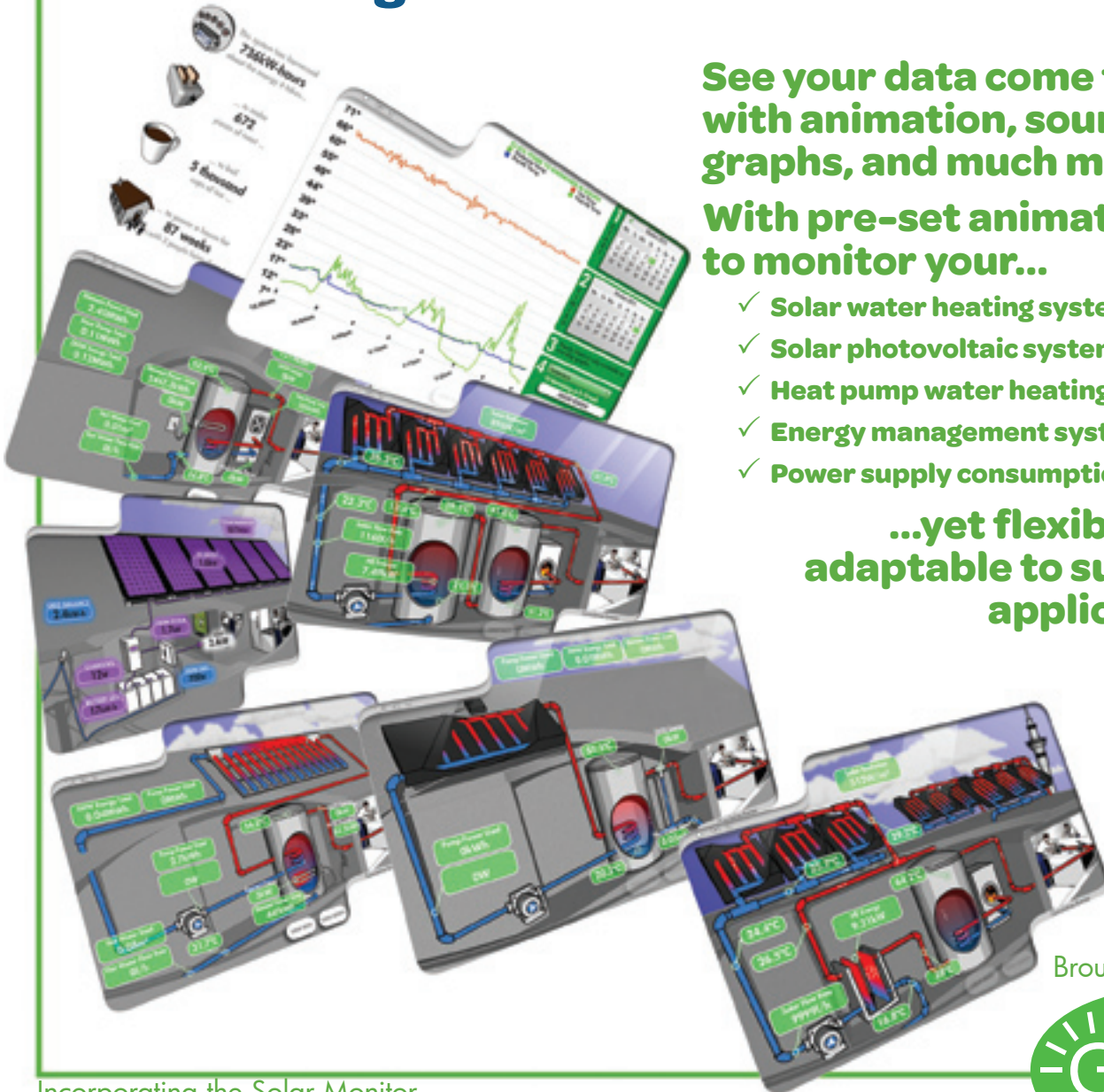
Introducing the latest in online monitoring.

See your data come to life with animation, sound, graphs, and much more!

With pre-set animations to monitor your...

- ✓ Solar water heating systems
- ✓ Solar photovoltaic systems
- ✓ Heat pump water heating systems
- ✓ Energy management systems
- ✓ Power supply consumption

...yet flexible and adaptable to suit any application.



Incorporating the Solar Monitor

Brought to you by



Energy Conscious Design

Why use online monitoring?

Monitoring of systems has been proven to result in increased savings and maximum system performance. The additional cost of the monitoring can be saved in a very short time, in some cases within a month. The installation of a monitoring system is so beneficial that it is now a conditional part of receiving some grants for renewable energy installations. Splash Monitoring provides all the advantages of a monitoring system plus lots more.

What is Splash Monitoring

Splash Monitoring incorporates Energy Conscious Design's "Solar Monitor", which was originally developed for optimising the performance of solar water heating systems. It is a low cost, web-based monitoring system featuring realtime animations designed to be educational, informative and accessible to anyone from young students to experienced engineers. Splash Monitoring uses common, off-the-shelf components and hardware from a variety suppliers. You are not locked in to buying only one brand of hardware: you have the freedom to choose.

Monitor any type of system

Splash Monitoring is now able to monitor other renewable energy systems including photovoltaic, hydro- and wind- turbines, as well as other systems such as heat pump water heaters and critically conditioned environments such as computer server rooms and greenhouses. Please see the website for hardware compatibility and system requirements.

Stay informed

Automated SMS/email alerts immediately notify nominated persons in the event of a communication failure. Use our powerful alerts engine to trigger alerts based on comparison of sensor values (like temperature) with predefined values or even other sensor values.

Easy System Setup

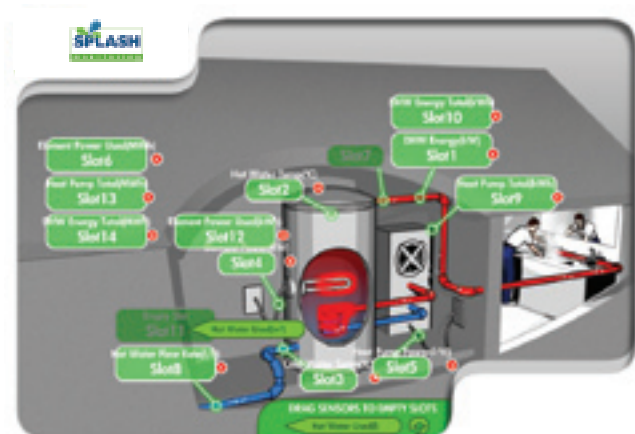
With our unique Dashboard interface, Splash Monitoring customers can actually;

- * Sign themselves up
- * Start a stream of data
- * See the current data values
- * Identify the data they wish to monitor
- * Make their system public or private
- * Configure reports and alerts and more.

All in an easy, intuitive, plug-and-play interface. In most cases the entire setup can be undertaken by the user without technicians visiting the site. However, if you need help, we are always a phone call away.



The powerful and convenient "Dashboard"



Drag-and-drop simplicity

Simple remote access, easy-to-understand monitoring

View realtime animation of any system from anywhere in the world using a computer or web-enabled phone from your Dashboard or directly via your own web address. Make your system publicly or privately viewable by only users that you invite. Click the "View Info" button and see your own custom text and photos of the system. Click the "View Graph" button to gain access to powerful graphing, data logging, and historical information.

Report

Powerful reporting allows users to generate in-depth reports and graphs that can be used to optimise your system, including system performance, energy or green-house gases saved, financial analysis, and more.

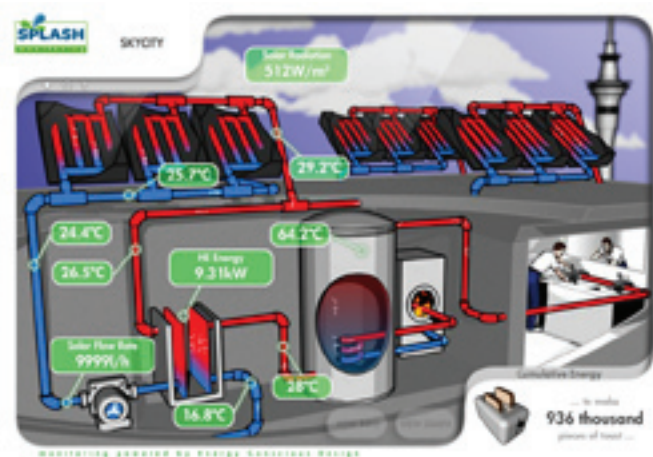
Engineering Expertise

Splash Monitoring allows you to call upon the extensive experience of Energy Conscious Design (ECD) to ensure your systems optimum performance. More about us can be found on the back of this brochure.

Benchmarking

It is one thing to be able to see what your system is doing all on its own. However, when compared with other systems in your area, you may learn a lot more.

By automating our reports, we are able to easily compare your system performance with others under similar conditions. Predictive performance analysis helps you know how your system is and should be performing and how it can be improved.



Security

Splash Monitoring offers a proven high level of security accepted by corporate and government clients. You have total control over access to your realtime viewer: make it public, or maintain your own list of permitted users.

Your Data is stored on Cloud Servers, offering the best combination of performance and security. Never again will you have to wonder if your data is safe and reliably accessible.

And now with our Splash Monitoring Stream Box, you won't ever need to open up a dangerous hole in your network's security firewall nor give support staff access to your local pc via screen-sharing or remote control software.

Customize any aspect of the monitor

Already making a Splash!

The innovative Splash Monitoring is already helping a number of clients to better understand their systems and to showcase the system performance with the aid of the animation being shown on displays within their premises. Clients include SKYCITY Auckland, Victoria University Wellington, Zealandia Visitors Centre at Karori Wildlife Sanctuary, Wellington, the NZ Government, South Waikato District Council Tokoroa Swimming Pools, Contact Energy, Papamoa High School, Tauranga Indoor Sports and Exhibition Centre, Nelson City Fitness, as well as dairy sheds, domestic homes and many more.

The Foundation for Research Science and Technology was so impressed with our approach and the unique visualisations that they co-funded development of Splash Monitoring.

The Energy Efficiency and Conservation Authority have also seen the educational value, funding a high-profile installation of Splash Monitoring on the observation deck of the SKYCITY Tower in Auckland, New Zealand.

Energy Conscious Design, the creators of Splash Monitoring, are widely recognized as the leading Solar Water Heating designers in New Zealand, and have over 20 years of experience in the field of design, renewable energy, monitoring, and auditing. And now that expertise is available to the entire world through our powerful reporting tools built in to Splash Monitoring.

Case Study: Skycity Hotel and Casino, Auckland

Energy Conscious Design designed and installed an innovative solar water heating system to preheat water for the Skycity casino in Auckland. The system was partially funded under the Government (EECA) Innovation Fund. This solar hot water installation rewrote the design book for commercial water heating systems, with its dramatically new approach. Delivering an amazing system efficiency, the system provides maximum returns. Technically challenging in both the design and installation phases, the system was installed on time and with minimum disturbance to the hotel and casino operations. A 32inch LCD display on the observation deck of the Sky Tower displays the Splash Monitoring animation, providing background information as well as current real-time system performance.



SKYCITY and EECA publicise their advanced solar water heating system and educate visitors with the 24/7 observation deck display.

Case Study: Teaching Research Building, Victoria University, Wellington

A solar water heating system was installed in this new building in Wellington to preheat the domestic hot water. Multiple 50inch touch screens at the entrance to the building display the Splash Monitoring allowing students and visitors to explore the technical features of the system and monitor its performance. They are further encouraged to integrate Splash Monitoring into their own projects, making this a valuable educational resource. This optimises the benefits from solar and other energy efficiency measures by incorporating technology into education.

The collectors were installed to optimise aesthetics as the building is overlooked by many surrounding houses. The solution – Striking!



Visitors to Victoria University's new TRB Building see three 50-inch touchscreens for viewing the system, its features, real-time, and historical performance.

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