SPLASH monitoring

Making energy consumption visible and easy to manage
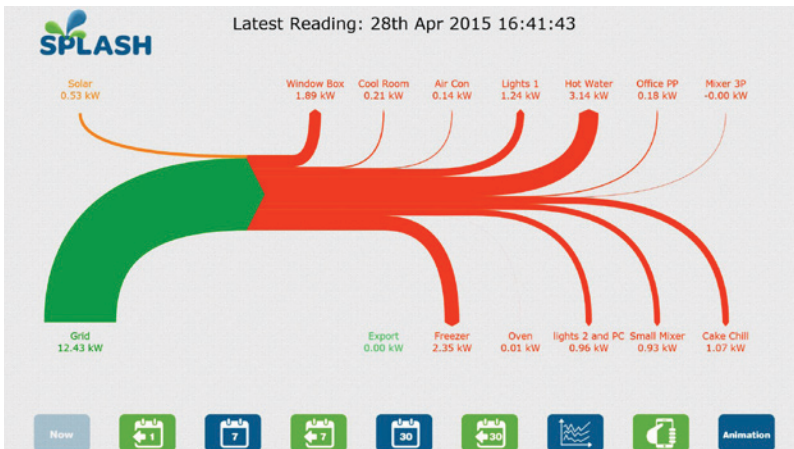
Why monitor your power consumption?
You can only manage it if you can see it and understand it.

✓ Identify where and how your business or home uses power and discover the power vampires

✓ Allows you to understand your own or your customers power use so you can manage and reduce their power consumption – you will be surprised how easy savings can be made

✓ Allows key stakeholders and employees to engage in energy efficiency, change habits and maximise energy savings

✓ Identify problems with plant and controls the moment they occur

✓ Collate information to substantiate a business case to update old or inefficient electrical equipment

✓ Make power savings that directly improve your company's profits

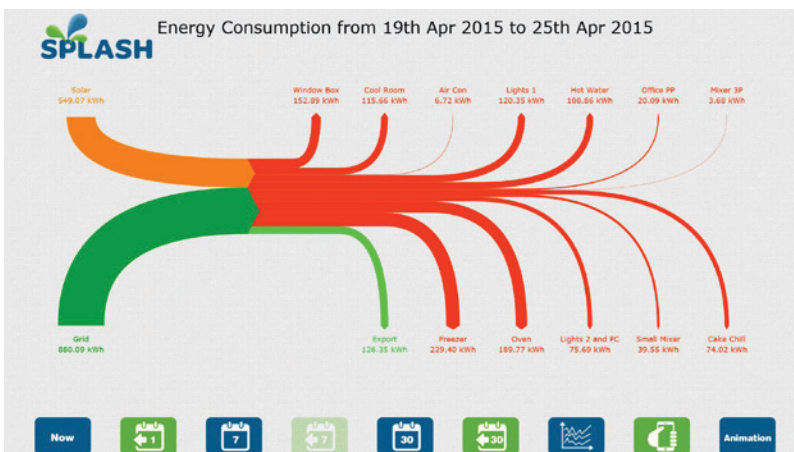✓ Prove energy savings by monitoring after energy improvements have been made

Why SPLASH monitoring?
SPLASH Easy View makes your energy consumption visible and easy to understand

The Easy View Dashboard is quick and easy to understand - view Live and Historical information - great for use in client reports

The Live Easy View with Playback allows you to see your Power Supply and Consumption over the selected time period

Historical Easy View Click to view the total Energy Supplied and consumed for the selected time period

✓ SPLASH monitors Solar power generation as well as power consumption from the grid and clearly shows where the power is being consumed

✓ SPLASH "Easy View" is the clearest way of displaying generation & consumption to non-Engineers. Use it to present findings to key stakeholders or customers

✓ Proven Monitoring system used by many Government Departments, Corporates and Energy Companies as well as businesses and home owners. Developed in New Zealand, used Worldwide

✓ Provides access to real-time and historical power consumption from anywhere with a computer, tablet or smart phone

✓ Comprehensive and accurate monitoring of your power consumption including Power Factor which increases the potential savings identified by the monitoring

✓ Easy to install and setup

✓ Access your own secure, private dashboard allows the monitoring, data, views and graphs to be customised

✓ Unique, clear and easy to use Dashboards, User Interface and Lobby Screens

✓ Expand the system to monitor other information including: Solar PV, Solar water heating, environmental, space temperatures and humidity

✓ Check phase balancing – a major factor in the effectiveness of solar PV systems

✓ Secure data storage

✓ Cost Effective solution

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Key hardware features

✓ Each SPLASH Power Monitor monitors electric power on up to 12 single phase circuits or up to four 3-phase circuits. Add more SPLASH Power Monitors for larger and more complex systems

✓ Data is monitored every 10 seconds (frequency can be increased if finer resolution is required)

✓ Monitor Volts, Amps, Watts, Watt hours, frequency, VA, VAr and Power Factor

✓ Monitor solar & renewable energy power generation

✓ Monitor Incoming mains grid, solar, generator and battery supplies, sub-metering and individual circuits

✓ View current and historical data as "Easy View" Sankey Diagrams, graphs or actual values or export as CSV files

✓ Fully flexible and programmable alerts and notifications, send out SMS and Email alerts

✓ Transmit data via hardwired CAT5 cable to the LAN or router, via 4G / 3G, power line communications or wireless

✓ Inbuilt "Power Line" communications with Automatic Home-Plug pairing

✓ Built-in web server pushes data down to every 10 seconds to SPLASH Monitoring servers

✓ Remote device support

✓ Multi layered password protection and information hiding

Hardware Specification

Connectivity
SPL 3000 Ethernet connection SPL 3010 Ethernet connection and "Home Plug" Power Line Communication

Measured and logged values
V, A, W, kWh, Hz, VA, VAr, Total Harmonic Distortion (THD), deg.C.

Accuracy (at 100A & 120 Vrms at 60HZ using high accuracy CT's)
0.5% ANSI C12.20
1% ANSI C12.1

Meas. Category: III (fixed installation)

Measurement Capacity
Voltage: up to 480 Vac, 3 channels
85-277V (L1), 0-277V (L2, L3)
Current: 12 channels
Power: any voltage / current combination

Power usage: 3W typical
Enclosure Material: flame-retardant ABS (UL94-V0)
Size: 176×8530mm2
Weight: 220g

Environmental Conditions
Operating temp: –30°C to 50°C (–22°F to 122°F)
Max altitude 4000m
Max humidity 80% to 31°C, derate to 50% at 40°C

Certifications:
Conforms to UL STD 61010-1
Certified to CAN/CSA STD C22.2 No. 61010-1
Lead-free and RoHS comliant
FCC: CISPR 11 Group 1 class B,
FCC 47CFR part 15 class B
CE
RCM

Warranty: 2 years

CT's to suit all applications (other sizes available to order)

CT 0.4 Inner dimension of clamp 10mm
20 Amp rating CTS040-20
30 Amp rating CTS040-30
50 Amp rating CTS050-50
75 Amp rating CTS050-75

CT 0.75 Inner dimension of clamp 19mm
50 Amp rating CTS075-50
100 Amp rating CTS075-100
200 Amp rating CTS075-200

CCT 1.25 Inner dimension of clamp 30mm
100 Amp rating CTS125-100
200 Amp rating CTS125-200
400 Amp rating CTS125-400
600 Amp rating CTS125-600

CT 2.0 Inner dimension of clamp 50mm
200 Amp rating CTS200-200
400 Amp rating CTS200-400
600 Amp rating CTS200-600
800 Amp rating CTS200-800
1500 Amp rating CTS200-1500

CT 6.0 Rope 150mm long Flexible Rope

CT0.75 ACCU 19mm High Accuracy CT
50 Amp rating ACCUCT075-50
100 Amp rating ACCUCT075-100

DC CT0.79 20mm DC CT
10 – 300 Amp Split core
10 – 300 Amp Solid core