



# Innovative Informer—Xmas Issue



Valerie Adams had her own Gold medal party in Auckland



NZ's Medal Winners

**Season's Greetings** and thank you to all our customers who have supported us this year.

It's been another good year of news for New Zealand with the London Olympics. Congratulations to all the Olympians who competed for New Zealand, bringing home medals in 13 events, making NZ fifth on the list of the medals won per capita of population.

We should reflect on the sacrifices they must have made to reach such a standard of achievement and may they set an example for the younger generation to show them what can be achieved if you give it your all.

Also, good news is that for the first time since the devastating Feb 11th earthquake, Victoria Park is now open to the public. This is a great milestone for the Rebuild of the City of Christchurch.



Victoria Park in Christchurch open due to **RED ZONE** reduction

Some of Northeast Australia was recently plunged into complete darkness for two minutes.

It was the first full solar eclipse visible from Australia since 2002. It has been said that during those two minutes it looked like a moonlit night - How amazing is that!

Although a partial eclipse could be seen from New Zealand, it was nothing compared to the amazing sight that graced a few Australians. The next solar eclipse to be visible from Australia is expected in May next year, but AAP reports it will only be an annular eclipse, which is not as exciting.



## DC Standby Power Systems with Communications

**Innovative Energies** specialises in the manufacture of custom built DC cabinets, designed for industrial environments where both mechanical and electrical stresses are at their maximum. The cabinets and all componentry used are built to withstand all the environmental and operational conditions found in industrial situations which are not air conditioned like most computer and telecommunication switchrooms.

The Opus system on the right contains 4 x 24V, 1100W modules with associated load distribution and a battery shelf at the bottom. The Opus system is capable of supporting up to 42 x 1600W rectifier modules and is:

### Convection Cooled

### Communication Options

The heart of the system revolves around the powerful VIDI controller with full communications, such as

- Remote Monitoring and Control via Ethernet or RS-232 Port
- Alarms by E-Mail
- Alarms via SNMP traps
- Supported TCP/IP Protocols: HTTP, HTTPS, Telnet, SSH, SMTP, SNMPv2, NTP, DHCP
- Modbus TCP

Some functions available are:

#### Battery Management Features included in main controller

##### Battery tests

- Manual battery test
- Periodic battery test
- Natural battery test (starts on mains fault)

##### Charge Modes

- Float charge
- Manual boost charge
- Periodic boost charge
- Automatic boost charge
- Temperature compensation in all charge modes

##### Functions

- Charge current limiting
- Discharged Ah-counter
- Time windows for battery tests

For a full list of the VIDI features please refer: [www.innovative.co.nz/uploads/pdf/VIDI.pdf](http://www.innovative.co.nz/uploads/pdf/VIDI.pdf)



Opus Systems and VIDI Controller

### GSM and Radio Options

The SR range of power supplies/ chargers manufactured in New Zealand have built in communication protocols which may be used as standalone units or with other communication devices. Two examples of these are:

1. **GSM enabled protocol converter** which communicates to the central uSCADA software via SMS (Short Message Service) or Standalone.
2. **TETRA Data Modem** using the TETRA infrastructure which enables data via RS-232, RS-485 or Ethernet.



Power Supply Status:	Charge Cycle (Normal Operation)
Battery Status:	Battery Missing
Output Voltage:	27.4
Battery Current:	0.0
PSU Current:	0.0
Load Current:	0.0

Some viewable parameters available in real-time



## DC Standby Power Systems with Batteries

The cabinet on the right uses 3 x SR750 hot swappable rectifiers with mains fail, DC low alarms and digital V/I meters housed in a seismically rated rack. Mains input for each charger is via 3 single pole MCBs with the output of each charger protected by battery fuses and DC distribution breakers. Each battery shelf is designed to take 4 x 12V, 150AH front terminal batteries with a total weight of 200kg.

CAB289 - 45U Multiple Output Charging System with 12VDC 2.25kW & 24VDC 2.25kW

### Battery Options

Innovative Energies offers the widest range of batteries. Battery selections are based on customer applications.



Batteries available from 7Ah - 3000Ah

### Remote Systems

Not all DC systems are located in air conditioned rooms at 20deg C where a technician can be on site in 30 minutes. It's much more than a 30 minute drive to these units below!





## Brain teaser

Get in the draw to win \$100  
straight into your account!



Where is this location?

Email answers to: [info@innovative.co.nz](mailto:info@innovative.co.nz)

Entries close 20th Jan 13/ Winner will be advised 23rd Jan 13.

## Xmas Holidays & Contact Details

**December 2011/12 Factory Close Dates:**

21st December 2012 – 7th January 2013

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## Market Sector Highlight: Mining, Oil & Gas



Innovative stand at the  
New Plymouth Oil & Gas



Typical applications ideal for Innovative Energies  
Mining, Oil & Gas solutions

Please email: [info@innovative.co.nz](mailto:info@innovative.co.nz) if you do not wish to continue  
receiving the *Innovative Informer* or if you have any questions regard-  
ing the material within this newsletter.



Factory Acceptance Testing

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